

STIC Database Tracking Number: 288593

To: Michael Fuelling
Location: KNX 0D75
Art Unit: 3626
Date: 3/23/09
Case Serial Number: 10/805149

From: Eileen Patton
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KNX 2D08A
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Search Notes

Dear Examiner Fuelling:

Please find attached the results of your search for the above-referenced case. The search was conducted in Dialog, EBSCOhost and the internet.

I have listed *potential* references of interest in the first part of the search results. However, please be sure to scan through the entire report. There may be additional references that you might find useful.

If you have any questions about the search, or need a refocus, please do not hesitate to contact me.

Thank you for using the EIC, and we look forward to your next search!

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**EIC-Searcher identified “potential references of interest” are selected based upon their apparent relevance to the terms/concepts provided in the examiner’s search request.*

I. Potential References of Interest

A. Dialog

24/3,K/3

DIALOG(R)File 20: Dialog Global Reporter

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06090584 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Buffalo, N.Y.-Area Rite Aid Stores Install Automated Prescription System

Sharon Linstedt

KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS NEWS (BUFFALO NEWS - NEW YORK)

July 06, 1999

Journal Code: KBUF **Language:** English **Record Type:** FULLTEXT

Word Count: 1228

(USE FORMAT 7 OR 9 FOR FULLTEXT)

-

If you get **prescriptions filled** at a Buffalo-area Rite Aid drug store -- and with new requirements from Blue Cross and Blue Shield more people will -- there's a good chance a **machine**, not a **pharmacist**, will sort, count and label your medication.

As of this week, 34 local Rite Aids have installed the chain's new RapidScript system, an automated **prescription-dispensing** unit, which is aimed at increasing behind-the-counter efficiencies and giving pharmacists greater opportunities...
...thing."

Morse said while dispensing of drugs will remain an integral facet of any pharmacy **practice**, time **away** from the counting and labeling of medication will allow druggists to play a larger role...

29/3,K/1 (Item 1 from file: 350)

Questionable date on this one

DIALOG(R)File 350: Derwent WPIX

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0014020422 & *Drawing available*

WPI Acc no: 2004-202105/200419

Related WPI Acc No: 2004-516044; 2004-592037; 2004-634137; 2005-150553; 2005-171158; 2005-171159; 2005-179630; 2005-766140; 2007-291030; 2007-598023; 2008-C17089; 2008-D00568; 2008-K24693; 2008-M00757

XRFX Acc No: N2004-160642

Robotic system for medical field, has cameras and monitors to allow care giver at remote location to monitor and care for patient through robot, and holonomic platform to allow robot to move about home to locate patient

Patent Assignee: BUTNER S E (BUTN-I); INTOUCH HEALTH INC (INTO-N); JORDAN C S (JORD-I); LABY K P (LABY-I); SOUTHARD J (SOUT-I); WANG Y (WANG-I)

Inventor: BUTNER S E; JORDAN C S; LABY K P; SOUTHARD J; WANG Y

Patent Family (6 patents, 95 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040019406	A1	20040129	US 2002206457	A	20020725	200419	B
WO 2004012018	A2	20040205	WO 2003US23328	A	20030725	200419	E
AU 2003256813	A1	20040216	AU 2003256813	A	20030725	200453	E
US 6925357	B2	20050802	US 2002206457	A	20020725	200550	E
EP 1573406	A2	20050914	EP 2003771847	A	20030725	200560	E
			WO 2003US23328	A	20030725		
JP 2006508806	W	20060316	JP 2004524824	A	20030725	200620	E
			WO 2003US23328	A	20030725		

Priority Applications (no., kind, date): US 2002206457 A 20020725

Robotic system for medical field, has cameras and monitors to allow care giver at remote location to monitor and care for patient through robot, and holonomic platform to allow robot... Alerting Abstract ...and a holonomic platform, where all are attached to a robot housing. The robot is **controlled by a remote control station** (16) with a camera and a monitor. The cameras and monitors allow a **care giver at remote location** to the monitor and care for a patient through the robot. The holonomic platform... ... a method for **dispensing a drug** to a patient a method for monitoring a patient a method for **remotely operating** a robot to monitor a patient... ... ADVANTAGE - The system allows a health **care** provider to **remotely** monitor and assist a patient without being physically present, thereby minimizing periodic visit by the... ... **16 Remote control station...** **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date **B25J-0003/00...** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**A robotic system that includes a **remote controlled** robot. The robot may include a camera, a monitor and a holonomic platform all attached to a robot housing. The robot may be **controlled by a remote control** station that also has a camera and a monitor. The **remote control** station may be linked to a base station that is wirelessly coupled to the robot. The cameras and monitors allow a **care giver at the remote location** to monitor and care for a patient through the robot. The holonomic platform allows... ... A robotic system that includes a **remote controlled** robot. The robot may include a camera, a monitor and a holonomic platform all attached to a robot housing. The robot may be **controlled by a remote control** station that also has a camera and a monitor. The **remote control** station may be linked to a base station that is wirelessly coupled to the robot. The cameras and monitors allow a **care giver at the remote location** to monitor and care for a patient through the robot. The holonomic platform allows... ... A robotic system that includes a **remote controlled** robot. The robot may include a camera, a monitor and a holonomic platform all attached to a robot housing. The robot may be **controlled by a remote control** station that also has a camera and a monitor. The **remote control** station may be linked to a base station that is wirelessly coupled to the robot. The cameras and monitors allow a **care giver at the remote location** to monitor and care for a patient through the robot. The holonomic platform allows... ...**Claims:** 1. A method for **remotely operating** a robot to monitor a patient, comprising:transmitting a first command to move a mobile robot from a first **remote control** station;transmitting a second command to move the mobile robot from a second **remote control** station;determining which command

has priority; and,moving the mobile robot in response to the...

16/3,K/16 (Item 10 from file: 2)

DIALOG(R)File 2: INSPEC

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05373165 INSPEC Abstract Number: C9305-7140-032

Title: A new computerized information-intensive and technical dispensing system

Author Ishikura, C.; Ishizuka, H.

Author Affiliation: Bohsei Pharmacy Co. Ltd., Kanagawa Prefecture, Japan

Conference Title: MEDINFO 92. Proceedings of the Seventh World Congress on Medical Informatics p. 282-5 vol.1

Editor(s): Degoulet, P.; Piemme, T.E.; Rienhoff, O.

Publisher: North-Holland , Amsterdam, Netherlands

Publication Date: 1992 **Country of Publication:** Netherlands 2 vol. liv+1637 pp.

ISBN: 0 444 89668 6

Conference Date: 6-10 Sept. 1992 **Conference Location:** Geneva, Switzerland

Language: English

Subfile: C

Abstract: The authors have developed a new computerized **drug dispensing** system which is both information intensive and fully automated. The information component of the system has been designed to support integrated prescription audits, including audits of maximum dose, overlap administration, and drug-drug interaction among others. The technical component consists of **automated dispensing devices**, a tray-transfer line, a reception number indicator screen installed in the waiting room and a terminal to provide patients with additional information. This computerized dispensing system has produced the following results: improvement in the quality of the dispensing work; reduction in the time required for **dispensing medicines**; improvement in the quality of the service to patients; improvement in the efficiency of the clerical work in the non-dispensing work; and improvement in...

Identifiers: ...computerized **drug dispensing** system...

Astronomical Objects:

16/3,K/17 (Item 11 from file: 2)

DIALOG(R)File 2: INSPEC

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04960708 INSPEC Abstract Number: C91059770

Title: Computerized dispensing system: reducing the time of dispensing medicines

Author Ishizuka, H.; Horiguchi, M.; Waki, Y.; Maeda, M.; Ishikura, C.

Author Affiliation: Bohsei Pharmacy, Tokyo, Japan

Journal: International Journal of Bio-Medical Computing vol.28, no.1-2 p. 137-46

Publication Date: May-June 1991 **Country of Publication:** Netherlands

CODEN: IJBCBT **ISSN:** 0020-7101

U.S. Copyright Clearance Center Code: 0020-7101/91/\$03.50

Language: English

Subfile: C

Title: Computerized dispensing system: reducing the time of dispensing medicines

Abstract: The authors have developed a new computerized dispensing system which reduces the time needed to dispense medicines. This system is so designed to assist the pharmacist with various tasks. These include receiving prescriptions, dispensing of medicines, checking for accuracy, and payment. This system consists of

automated dispensing devices, a tray-transfer line, a reception number indicator screen installed in the waiting room, and a terminal to provide patients with additional information. The prescription data are instantly transmitted to the respective **dispensing positions** and the **prescriptions** are **dispensed** simultaneously. The host computer performs such functions as input of information of prescriptions, accounting calculations, integrating **prescription audit**, and **preparation** of printing data for medicine bags. The control computer, which receives prescription data from the host computer, sorts and sends instruction data on **prescriptions** to the automated **dispensing machines**, outputs instructions on the **preparation** of medicines in the manual **dispensing sector**, and controls the tray-transfer line, the turn tables and the reception number indicator screen.

14/3,K/2 (Item 2 from file: 73)
DIALOG(R)File 73: EMBASE
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0077762677 EMBASE No: 1999248959

Telemedicine and telepharmacy: Current status and future implications

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Corresp. Author Email: dangaran@aol.com

American Journal of Health-System Pharmacy (Am. J. Health-Syst. Pharm.) (United States) July 15, 1999 , 56/14 (1405-1426)

CODEN: AHSPE **ISSN:** 1079-2082

Document Type: Journal ; Review **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 128

Uses of telemedicine are described and potential roles for **pharmacists** are discussed. **Telemedicine** has been defined as 'the use of electronic information and communications technologies to provide and support health care when **distance** separates the participants.' Technologies included in telemedicine are videoconferencing, telephones, computers, the Internet, fax, radio, and television. Telepharmacy has the same basic definition but refers... ..instrument to a multimedia access tool. Medical devices are being attached to telephone lines to provide remote monitoring and therapy, and call centers are providing **medication** counseling, prior authorization, **refill** authorization, and formulary compliance monitoring. Although the Internet has quickly become a star performer, utilization by health care lags behind that of other industries. The...

14/3,K/3 (Item 3 from file: 73)
DIALOG(R)File 73: EMBASE
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0076750840 EMBASE No: 1997043798

Remote control

Ukens C.

Drug Topics (DRUG TOPICS) (United States) February 20, 1997 , 141/2 (69)

CODEN: DGTNA ISSN: 0012-6616

Document Type: Journal ; Short Survey **Record Type:** Abstract

Language: English **Summary language:** English

Remote control

Automation puts the retail **pharmacist's** foot inside the doctor's door, as two new outpatient automated **remote-control** units permit R.Ph.s to **dispense medications** in clinics, in physician offices, and in nursing homes without ever leaving the pharmacy.

14/3,K/4 (Item 1 from file: 74)

DIAL.OG(R)File 74: Int.Pharm.Abs

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00290285 35-11194

USING TELEMEDICINE TECHNOLOGY FOR PHARMACEUTICAL SERVICES TO AMBULATORY CARE PATIENTS

Gulliford, S. M.; Schneider, J. K.; Jorgenson, J. A.

Dept. of Pharm. Serv. (A-050), Univ. of Utah Hosp. and Clin., 50 N. Medical Dr., Salt Lake City, UT 84132, USA

American Journal of Health-System Pharmacy, V55, (Jul 15), p1512-1515, 1998

CODEN: AHSPEK **ISSN:** 1079-2082 **Language:** English **Record Type:** Abstract

The implementation of a telepharmacy site to provide pharmaceutical services to ambulatory **care** patients in **remote** locations is described and explores an alternative means of providing pharmaceutical care for patients who presently have limited access to pharmacies, pharmacists, and pharmacy-managed...

Descriptors: ...ambulatory care; Ambulatory care -- pharmacy services, telepharmacy; Pharmacy services -- ambulatory care, telepharmacy; Administration -- policies and procedures, telepharmacy; Pharmaceutical care -- ambulatory care, telepharmacy; Automation -- dispensing, telepharmacy; **Dispensing** -- automation, telepharmacy; Computers -- **pharmaceutical** care, telepharmacy; Geography -- pharmaceutical care, telepharmacy; **Telemedicine** -- technology, pharmacy services; **Pharmacists** -- consultation, telepharmacy; Technology -- **telemedicine**, pharmacy services; Formularies -- telepharmacy, implementation; Pharmacy -- state boards, telepharmacy; Patients -- attitudes, telepharmacy; **Outcomes** -- clinical, telepharmacy; Economics -- cost benefit analysis, telepharmacy

19/3,K/12 (Item 6 from file: 74)

DIAL.OG(R)File 74: Int.Pharm.Abs

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00292420 35-13329

UNIQUE MODEL FOR INTEGRATING CLINICAL AND DISTRIBUTIVE AMBULATORY PHARMACY SERVICES

Woller, T. W.; Agarwal, P.

Aurora Health Care, Metro Region, 2600 West Oklahoma Avenue, P.O. Box 2901, Milwaukee, WI 53215-2901, USA Internet: twoller@execpc.com

ASHP Midyear Clinical Meeting, V33, (Dec), pP-262D, 1998

Abstract of Meeting Presentation

Language: English **Record Type:** Abstract

...services in an integrated health system implemented a unique model for delivery of ambulatory pharmacy services. The model features decentralized ambulatory pharmacists who have both **distributive** and clinical responsibilities. **Prescription** processing is centralized in a **fully automated** retail **pharmacy**. Decentralized **pharmacists** are located in the Pain Management Center, Emergency Department, Same Day Surgery and the Family Practice Center. **Pharmacists** that **practice** in the retail pharmacy provide patient consultation to all patients and participate in selected care management programs. Development of these services has improved patient convenience...

Descriptors: Practice Interest Areas -- Ambulatory Care, meeting presentations; ASHP meeting abstracts -- ambulatory care, pharmacy services; Ambulatory **care** -- pharmacy services, **pharmacists** role; Pharmacy services -- ambulatory **care**, **pharmacists** role; Administration -- pharmacy services, ambulatory **care**; Clinical **pharmacists** -- role, ambulatory pharmacy services; **Pharmacists**, community -- consultation, ambulatory **care**; **Prescriptions** -- dispensing, consultation; **Dispensing** -- **prescriptions**, pharmacists role

16/3,K/3 (Item 2 from file: 9)
DIAL.OG(R)File 9: Business & Industry(R)
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01336353 Supplier Number: 23986270

Telemedicine: The New Frontier

(**Telemedicine**, in which a physician, nurse or pharmacist communicates to a patient via phone and video links, could be the wave of the future)

Drug Topics , v 141 , n 15 , p 60+
August 04, 1997

Document Type: Journal; Cover Story **ISSN:** 0012-6616 (United States)

Language: English **Record Type:** Abstract

ABSTRACT:

...Kansas study indicated that 50% of home health care visits could have been accomplished by telemedicine. ADDS Inc (North Billerica, MA) offers units that allow **pharmacists** to **dispense medication** at **remote** sites. The **automated dispensing devices** contain prepackaged bottles of medications. InforMedix Inc (Rockville, MD) offers a Personal Medical Assistant that reminds patients to take their pills, offering a picture of...

23/3,K/5 (Item 2 from file: 16)
DIAL.OG(R)File 16: Gale Group PROMT(R)
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05874866 **Supplier Number:** 53050545 (USE FORMAT 7 FOR FULLTEXT)

Shaping the future of pharmacy.(technology and automation trends)(Industry Trend or Event)(Industry Overview)

Frederick, James
Drug Store News , p CP17(1)
Sept 21 , 1998

Language: English **Record Type:** Fulltext
Article Type: Industry Overview
Document Type: Magazine/Journal ; Trade
Word Count: 2197

...mandates better workflow, Klein said, puts drug chains on a better track with state boards because it "addresses their concerns about the maximum number of **prescriptions** per **pharmacist**."

Robotic dispensing systems and other work flow tools could also speed chain pharmacy's move to **off-site dispensing**, leaders on both sides said. If approved by state boards of pharmacy, hub-and-spoke dispensing of prescriptions for surrounding stores at a super-efficient...

II. Text Search Results from Dialog

A. Patent Files, Abstract

File 347: JAPIO Dec 1976-2008/Oct (Updated 090220)

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File 350: Derwent WPIX 1963-2008/UD=200915

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Set	Items	Description
S1	43	(ROBOT? ? OR ROBOTIC???? OR ROBO OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELECTRONIC??? OR ELECTROMECHANICAL OR COMPUTERIZED OR DIGITAL OR -SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (PHARMACIST? ? OR PHARMACEUTIC? ? OR PHARMACOLOGIST? ? OR PHARMACOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARMID OR PHARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPHARMAC?)
S2	993865	(ROBOT? ? OR ROBOTIC???? OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELECTRONIC? -?? OR COMPUTERIZED OR DIGITAL OR SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (LOCK? ? OR TERMINAL? ? OR INTERFACE? ? OR DEVICE? ? OR APARATUS OR STATION? ? OR DRIVE() (IN OR THRU OR THROUGH) OR AUTOMAT? ? OR MECHANISM? ? OR UNIT OR UNITS)
S3	0	S1 (3N) (("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISIT?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTI-ON))
S4	4610	S2 (3N) (("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISIT?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTI-ON))
S5	72133	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (3N) (PHARMACEUTIC??? OR PHARMACEUTIC??? OR PHARMACO????? OR PHARMACECO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)
S6	375735	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR (DIFFERENT OR OTHER-) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? ? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT????? OR CARE OR PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNSEL???)
S7	31779	(PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLE-

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RK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? -
PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? OR OPERAT??? OR MANIPULA-
T??? OR COMMAND??? OR MANAG????? ACTIIVAT??? OR INTERACT????? -
OR DIRECT????? OR CARE OR PRACTICE? ? OR PRACTICING OR COUNSE-
L????)
S8      1290      S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR O-
FFSITE OR OFF() SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTL-
YING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR
(DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))
S9      12      S4 AND S5
S10     22      S1 AND S5
S11     22      S10 NOT S9
S12     0       S11 AND (S6 OR S8)
S13     863     S2 AND S5
S14     77      S13 AND S6
S15     7       S14 AND S7
S16     7       S15 NOT (S9 OR S11)
S17     1       S14 AND S8
S18     0       S17 NOT S15
S19     1       S13 AND S8
S20     0       S19 NOT S15
S21     3       S1 AND S6
S22     3       S21 NOT (S11 OR S15)
S23     374     S2 AND S8
S24     9       S23 AND (IC=B25J)
S25     9       S24 NOT (S11 OR S15 OR S22)
S26     70927   IC=B25J
S27     19      S26 AND S5
S28     19      S27 NOT (S11 OR S15 OR S22 OR S25)
S29     2       S28 AND (S6 OR S8)
S30     17      S28 NOT S29

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9/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0012657917 & Drawing available
WPI Acc no: 2002-507654/200254
Related WPI Acc No: 2002-121146
XRPX Acc No: N2002-401770

Automatic medications dispensing system initiates vending session by transmitting signal representing patient ID code to remote controller which sends enabling signal to vending machine to dispense prescribed medication

Patent Assignee: LION N (LION-I)

Inventor: LION N

Patent Family (2 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020062175	A1	20020523	US 1999358063	A	19990721	200254	B
			US 200117524	A	20011207		
US 6438451	B1	20020820	US 1999358063	A	19990721	200262	E
			US 200117524	A	20011207		

Priority Applications (no., kind, date): US 1999358063 A 19990721; US 200117524 A 20011207

Abstract ...an authorized request and transmits an enabling signal to the RVM instructing the RVM to dispense prescribed medications ... Integrated medication distribution system ; and Medication dispensing method. ...

DRAWINGS - The figure shows a schematic block diagram of connectivity between RVM units and centralized prescription filling facility. Original Publication Data by Authority Argentina **Publication No. Original**

Abstracts: A network of interactive, self-service, medication dispensing kiosks that are each adaptable to contain an inventory of, for example, 200 to 1600 different drugs, as may... A network of interactive, self-service, medication dispensing kiosks that are each adaptable to contain an inventory of, for example, 200 to 1600 different drugs, as may be... **Claims:** What is claimed is: 1. A system for unattended dispensing of medications , comprising: a remote vending machine (RVM) unit adapted to dispense at least one of a plurality of drugs contained therein in accordance with an authorized prescription , said dispensing unit including a data entry device of entering a patient identification key code (PID) corresponding to a particular patient; a remote controller operative to associate a... said RVM unit is further operative, in response to receipt of the enabling signal to dispense the prescribed medication

9/3,K/9 (Item 9 from file: 350)

DIALOG(R) File 350; Derwent WPIX

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0009601169 & Drawing available

WPI Acc no: 1999-550126/199946

XRFX Acc No: N1999-406998

Remotely programmable medication dispensing system in centrally controlled pharmaceutical network

Patent Assignee: CHOROSINSKI L (CHOR-I); MILES S P (MILE-I); MILES W V (MILE-I)

Inventor: CHOROSINSKI L; MILES S P; MILES W V

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5945651	A	19990831	US 1997895622	A	19970717	199946	B

Priority Applications (no., kind, date): US 1997895622 A 19970717

Patent Details

Remotely programmable medication dispensing system in centrally controlled pharmaceutical network

Original Titles: Remotely programmable medication dispensing system. **Alerting Abstract** ...USE - For dispensing prescribed dose of medication to assist patient in centrally controlled pharmaceutical network...

...ADVANTAGE - As the bar code reader controlled by a microprocessor, controls dispensing prescribed dose of

medication according to reduced bar code information, better management of a patient's medication and efficient... ..DESCRIPTION OF DRAWINGS - The figure shows the front view of medication dispensing devices connected to control computer... Original Publication Data by Authority Argentina **Publication No. Original Abstracts:** A medication dispensing system including a relatively small, microprocessor-controlled machine that assists in the accurate execution of a physician-prescribed medication regimen is disclosed. The correct dose of each medication that is to be dispensed at a particular time is stored in an individual packet defined in a flexible tape. The machine dispenses each packet of medication in the correct dose at the prescribed time by analysis of the information regarding the medications to be dispensed and other patient information which is printed in text and in barcode on the packets of the flexible tape. The machine can be used as a stand - alone unit , or can be integrated into a centrally-controlled pharmaceutical network. **Claims:** A medication dispensing device , comprising : a housing having a dispensing aperture; at least one flexible tape provided in said housing

9/3,K/11 (Item 11 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0007382314
WPI Acc no: 1995-292171/199538
XRAM Acc no: C1995-131622
XRPX Acc No: N1995-220968

Autonomous drug dispenser - has lockable casing enclosing drawers each with computer controlled carousel, lower drug dispensing chute and upper drug return slot
Patent Assignee: BRUSHWOOD M (BRUS-I); HULLENDER D (HULL-I); KEMP V (KEMP-I); NICHOLS J (NICH-I)
Inventor: BRUSHWOOD M; HULLENDER D; KEMP V; NICHOLS J
Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5441165	A	19950815	US 1991734152	A	19910722	199538	B

Priority Applications (no., kind, date): US 1991734152 A 19910722

Autonomous drug dispenser - ... has lockable casing enclosing drawers each with computer controlled carousel, lower drug dispensing chute and upper drug return slot **Original Titles:** Autonomous controlled drug dispensing system **Alerting Abstract** ...A drug dispensing system has a vertical stack of front loaded drawers each containing a motor driven slotted... ..The system is integrated into a box with a dual locked front door, a lower drug dispensing chute and an upper drug return slot.... ..Also claimed is a method of dispensing drugs using a system as above which offers a user a set of programmed menus.... ..USE - Autonomous stand alone drug dispensing system for use at a nursing station in a health care facility... **Claims:** An autonomous stand-alone controlled drug dispensing system particularly adapted for a nursing station at a health care facility comprising: a) a plurality of... .. comprises: a) a dual lock and key front door connected to said box, b) a drug dispensing chute connected to said box at a lower portion thereof; and c) a drug return slot separate from said drug dispensing chute in an upper portion of said box.

11/3,K/2 (Item 2 from file: 347)
DIALOG(R)File 347: JAPIO
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06334950 **Image available**

METHOD TO USE MULTI-COMPARTMENT TYPE SMALL ELECTRONIC MACHINE FOR DISTRIBUTING AND PACKAGING DRUGS, AND DEVICE FOR MAKING PRESCRIPTION USED IN THIS METHOD

Pub. No.: 11-276552 [JP 11276552 A]

Published: October 12, 1999 (19991012)

Inventor: HERVE LAURENT

VALERIE AURIOL

ERIC JARUSU

Applicant: BIOSTAR

Application No.: 10-061740 [JP 9861740]

Filed: March 12, 1998 (19980312)

Image available

ABSTRACT

...each user with an easy and effective method to use a small electronic machine for **distributing** and packaging **drugs**, that is, the method of prescription is for doctors, the constitution of the **machine** is for **pharmacists**, and to keep the rules is for patients.

SOLUTION: The method to use is of a multi-component type small electronic machine for **distributing** and packaging **drugs**, of which each compartment can be taken off and which mounts a **distributor** that **distributes drugs** one by one and fits to various shapes and sizes of galenicals. It consists of... Di01

11/3,K/14 (Item 12 from file; 350)

DIALOG(R)File 350: Derwent WPIX

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0012632892 & *Drawing available*

WPI Acc no: 2002-481839/200252

XRFX Acc No: N2002-380639

Electronic prescription handling system has central database viewed by dispenser to retrieve appropriate prescription based on received dispensing instructions

Patent Assignee: UNIV SALFORD (UYSA-N)

Inventor: CHADWICK D W

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
GB 2368435	A	20020501	GB 200026425	A	20001028	200252	B

Priority Applications (no., kind, date): GB 200026425 A 20001028

Electronic prescription handling system has central database viewed by dispenser to retrieve appropriate prescription based on received dispensing instructions Alerting Abstract ...including an electronic verification that identifies the prescriber. A dispenser, who receives the instructions to **dispense the prescription**, locates the prescription on a central database and retrieves the **prescription**. The **dispenser dispenses the prescription** and adds details of dispensing and electronic verification to the prescription. USE - For handling of **electronic prescriptions by pharmacist**.

11/3,K/18 (Item 16 from file: 350)
DIAL.OG(R)File 350: Derwent WPIX
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0009444862 & & Drawing available

WPI Acc no: 1999-383827/199932

XRFX Acc No: N1999-287326

Computer controlled pharmaceutical dispensing system

Patent Assignee: INNOVATION ASSOC INC (INNO-N)

Inventor: BOYER J H; BOYER J P

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5907493	A	19990525	US 1997792208	A	19970131	199932	B

Priority Applications (no., kind, date): US 1997792208 A 19970131

Computer controlled pharmaceutical dispensing system Original Titles:Pharmaceutical dispensing system. **Alerting Abstract** ...100) in communication with processor, has microprocessor which includes a computer program for singulating and **dispensing** each respective, **pharmaceutical**. **DESCRIPTION** - The graphical user interface processor disposed at a central, **prescription filling** workstation, monitors the status of a drug at on predetermined inventory location and displays graphically... ..is prompted by a programming routine in the program, to perform appropriate, predetermined steps in **filling a prescription** at the location. A main computer connected to the processor, stores information of drugs in... ..USE - For **filling prescriptions** at central, **prescription filling** workstation... .. One... .. and one or more pharmacies may be monitored by a central computer. The system for **filling prescriptions** includes a **graphical interface** processing system for monitoring operations of each cell, wherever located, and for sequentially and interactively prompting an operator to perform appropriate; predetermined steps. The system for **filling prescriptions** sequentially prompts a **technician** or operator to perform predetermined steps, dependent upon verification of the completion of a prior or previously completed step in the sequence. In a semi-automatic mode, the **pharmacist** is directed, by **suitable** prompts on the computer display screen, as to the necessary steps and locations in **filling each prescription**. The **main** computer **stores** information of a plurality of drugs in predetermined, separately-addressable cells, and arranges

16/3,K/4 (Item 4 from file: 350)
DIAL.OG(R)File 350: Derwent WPIX
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Inventor's publication

0014141848 & & Drawing available

WPI Acc no: 2004-326603/200430

XRFX Acc no: C2004-123918

XRFX Acc No: N2004-260360

Automated preparation and delivery of prescription medications to outpatients, involves transmitting prescription electronically to pharmacist, and preparing medical item in pharmacy according to pharmacist's direction

Patent Assignee: DIEBOLD INC (DIEB-N)

Inventor: REESE R

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6711460	B1	20040323	US 2001299116	P	20010618	200430	B
			US 2002172391	A	20020614		

Priority Applications (no., kind, date): US 2001299116 P 20010618; US 2002172391 A 20020614

Automated preparation and delivery of prescription medications to outpatients, involves transmitting prescription electronically to pharmacist, and preparing medical item in pharmacy according to pharmacist's direction Alerting Abstract ...NOVELTY - Prescription medication is automatically prepared and delivered to outpatients, comprises receiving a prescription at a pharmacy; transmitting prescription electronically to a pharmacist far from the pharmacy; preparing a medical item responsive to direction received electronically from the pharmacist; and delivering the medical item to a...

16/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0008256374

WPI Acc no: 1997-363881/199733

Related WPI Acc No: 2004-200946; 2005-675099

XRAM Acc no: C1997-116682

XRPX Acc No: N1997-302477

Mobile storage and dispensing unit for medicines - programmable to dispense medications at pre-selected times and connected via phone to emergency number when no patient response is received

Patent Assignee: GILMORE J (GILM-I); GILMORE J F (GILM-I)

Inventor: GILMORE J; GILMORE J F

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1997024702	A1	19970710	WO 1996US20846	A	19961227	199733	B
AU 199713565	A	19970728	AU 199713565	A	19961227	199746	E
GB 2324080	A	19981014	WO 1996US20846	A	19961227	199843	E
			GB 199813268	A	19980620		
GB 2324080	B	20000301	WO 1996US20846	A	19961227	200014	E
			GB 199813268	A	19980620		
US 6138865	A	20001031	US 19959395	P	19951229	200057	E
			WO 1996US20846	A	19961227		
			US 1998101045	A	19980625		
US 20020074339	A1	20020620	US 19959395	P	19951229	200244	E
			US 2000702554	A	20001031		
			US 200278691	A	20020219		
CA 2241082	C	20051108	CA 2241082	A	19961227	200577	E
			WO 1996US20846	A	19961227		

Priority Applications (no., kind, date): US 19959395 P 19951229; WO 1996US20846 A 19961227; US 1998101045 A 19980625

Mobile storage and dispensing unit for medicines -programmable to dispense medications at pre-selected times and connected via phone to emergency number when no patient response
Documentation Abstract ...user within a predetermined time, the system may automatically send a phone signal to a remote emergency number. The dispenser may have an on-board water dispenser (33) and carry disposable cups (62...
Documentation Abstract Image Original Publication Data by Authority Argentina Publication No. Original Abstracts: A mobile medicine storage unit for individuals under a doctor's care. The unit is programmable and preferably fully automatic, but also manual, in dispensing any number of medications up to four times per day at preselected times. Audible and visible indicators alert patients of proper dosages and timings of these doses. An optional integral water reservoir and cup dispenser makes it possible to properly take all medications with minimal effort at the unit. Patients not in close proximity to the unit will... ..

22/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0009563340 & & *Drawing available*

WPI Acc no: 1999-509917/199943

XRPX Acc No: N1999-380075

Automatic dispensing machine is especially for use in dispensing chemists

Patent Assignee: GEBR WILLACH GMBH (WILL-N)

Inventor: SCHMITT W; WILLACH U

Patent Family (5 patents, 25 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 29904863	U1	19990909	DE 29904863	U	19990317	199943	B
EP 1037179	A2	20000920	EP 1999124185	A	19991203	200047	E
EP 1037179	B1	20060322	EP 1999124185	A	19991203	200622	E
DE 59913250	G	20060511	DE 59913250	A	19991203	200632	E
			EP 1999124185	A	19991203		
ES 2260880	T3	20061101	EP 1999124185	A	19991203	200673	E

Priority Applications (no., kind, date): DE 29904863 U 19990317

Alerting Abstract ...DESCRIPTION OF DRAWINGS - The drawing shows a plan view of a dispensing

chemists in which the **automatic** machine is installed... Original Publication Data by

AuthorityArgentina**Publication No. ...Claims:**articles taken out of the shelving (20) by the manipulator from the shelving to a **dispensing** site (12, 13) **remote** from the shelving,

characterized in that

the transport device (50, 51) adjoins a dispensing side...

30/3,K/9 (Item 9 from file: 350)

DIAL.OG(R)File 350: Derwent WPIX

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0013799690 & & *Drawing available*

WPI Acc no: 2003-899762/200382

Related WPI Acc No: 2003-656257; 2003-895235

XRPX Acc No: N2003-718200

Vial gripping mechanism for automatic medicament dispensing machine, includes sensor and cable in channel of swing arm which is secure to jaws rotated by motor

Patent Assignee: COUGHLIN M E (COUG-I); COUGHLIN S P (COUG-I); ORR S (ORRS-I); SCRIPTPRO LLC (SCRI-N); SURGEON T (SURG-I)

Inventor: COUGHLIN M E; COUGHLIN S P; ORR S; SURGEON T

Patent Family (2 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030194306	A1	20031016	US 2001288126	P	20010502	200382	B
			US 200240824	A	20020107		
			US 2003440298	A	20030516		
US 6905046	B2	20050614	US 200240824	A	20020107	200540	E
			US 2003440298	A	20030516		

Priority Applications (no., kind, date): US 2001288126 P 20010502; US 200240824 A 20020107; US 2003440298 A 20030516

Alerting Abstract ...USE - Vial gripping mechanism for use with automatic medicament **dispensing** machine (claimed) including **pill** count sensor to count tablets, capsules... **Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date

30/3,K/12 (Item 12 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0008293491 & *Drawing available*
WPI Acc no: 1997-403537/199738
XRPX Acc No: N1997-335398

Machine for handling syringes stored in trays in syringe filling process - has transfer unit with cavities and rotating pins to remove syringes from tray or replace them in tray, and matrix component which moves unit towards or away from tray

Patent Assignee: BOSCH GMBH ROBERT (BOSC)
Inventor: GOETZELMANN B

Patent Family (9 patents, 19 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
DE 19604100	A1	19970814	DE 19604100	A	19960206	199738	B
WO 1997029015	A1	19970814	WO 1997DE156	A	19970129	199738	E
DE 19604100	C2	19971218	DE 19604100	A	19960206	199803	E
EP 825949	A1	19980304	EP 1997907025	A	19970129	199813	E
			WO 1997DE156	A	19970129		
JP 11503991	W	19990406	JP 1997528038	A	19970129	199924	E
			WO 1997DE156	A	19970129		
US 5934859	A	19990810	WO 1997DE156	A	19970129	199938	E
			US 1997930788	A	19971006		
EP 825949	B1	20030416	EP 1997907025	A	19970129	200328	E
			WO 1997DE156	A	19970129		
DE 59709826	G	20030522	DE 59709826	A	19970129	200341	E
			EP 1997907025	A	19970129		
			WO 1997DE156	A	19970129		
JP 3983290	B2	20070926	JP 1997528038	A	19970129	200765	E
			WO 1997DE156	A	19970129		

Priority Applications (no., kind, date): DE 19604100 A 19960206

Machine for handling syringes stored in trays in syringe filling process... Alerting Abstract ...and transfer them to a cleaning and sterilisation device and then to a device for **filling the syringes** with e.g. medicine and sealing them, before returning them to the tray.

30/3,K/13 (Item 13 from file: 350)

DIAL.OG(R)File 350: Derwent WPIX

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0007904354

WPI Acc no: 1996-354353/199635

XRAM Acc no: C1996-111632

XXPX Acc No: N1996-298840

Solid phase synthesis of organic cpds., e.g. peptide from aminoacid - using computer, robot and timing protocol so that certain steps in synthesis cycle are carried out concurrently

Patent Assignee: AVENTIS PHARM INC (AVET); SELECTIDE CORP (SELE-N)
 Inventor: KRCHNAK V; LEBL M; SELIGMANN B

Patent Family (12 patents, 71 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1996022157	A1	19960725	WO 1996US1168	A	19960119	199635	B
AU 199649671	A	19960807	AU 199649671	A	19960119	199646	E
ZA 199600447	A	19961231	ZA 1996447	A	19960119	199707	E
US 5614608	A	19970325	US 1995375879	A	19950120	199718	E
EP 804281	A1	19971105	EP 1996906212	A	19960119	199749	E
			WO 1996US1168	A	19960119		
AU 687670	B	19980226	AU 199649671	A	19960119	199821	E
JP 10512866	W	19981208	JP 1996522457	A	19960119	199908	E
			WO 1996US1168	A	19960119		
IL 116837	A	20000229	IL 116837	A	19960119	200029	E
EP 804281	B1	20020605	EP 1996906212	A	19960119	200238	E
			WO 1996US1168	A	19960119		
TW 457130	A	20011001	TW 1996101912	A	19960215	200243	E
DE 69621592	E	20020711	DE 69621592	A	19960119	200253	E
			EP 1996906212	A	19960119		
			WO 1996US1168	A	19960119		
ES 2177766	T3	20021216	EP 1996906212	A	19960119	200306	E

Priority Applications (no., kind, date): US 1995375879 A 19950120

Documentation Abstract ...a) and (b) as above, where the robot is operatively coupled to the sets of **syringes** for aspirating and **dispensing** reagents, and the synthetic steps include washing, adding deprotection reagents, deprotection, adding coupling reagents and... **Documentation Abstract Image Class Codes** International Patent Classification IPC Class Level Scope Position Status Version Date ...**B25J-0009/16** ...**B25J-0009/16** Original Publication Data by AuthorityArgentina**Publication No.** ...**Claims:**one of said first set of syringes with a first solution;e) adding deprotection solution **to the syringe** of step d) to initiate deprotection;f) while deprotection of step e) is proceeding repeating...

30/3,K/16 (Item 16 from file: 350)
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0005616074 & & Drawing available

WPI Acc no: 1991-224756/199131

Related WPI Acc No: 1996-009918; 1999-204098; 1997-099245

XRFX Acc No: N1991-171569

System for filling order i.e. at chemists or pharmacy - has packages each with same type of contents held in predetermined location and dispenser for each separate location

Patent Assignee: AUTOM HEALTHCARE (AUTO-N); AUTOMATED HEALTHCARE INC (AUTO-N);

MCDONALD S C (MCDO-I)

Inventor: HERTZ E J; MCDONALD S C; SMITH J A; TOTO G

Patent Family (5 patents, 5 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 439355	A	19910731	EP 1991300543	A	19910124	199131	B
CA 2034813	A	19910725	CA 2034813	A	19910123	199237	E
EP 439355	B1	19940928	EP 1991300543	A	19910124	199437	E
DE 69104236	E	19941103	DE 69104236	A	19910124	199443	E
			EP 1991300543	A	19910124		
CA 2034813	C	20010424	CA 2034813	A	19910123	200128	E

Priority Applications (no., kind, date): US 1990469217 A 19900124

Class Codes International Patent Classification IPC Class Level Scope Position Status Version Date ...**B25J-0015/06 ...B25J-0015/06** Original Publication Data by AuthorityArgentina**Publication No. Original Abstracts:**

A system for **filling** orders, such as **prescriptions** for patients, comprising a device for holding packages. Each package has the same type of...

B. Patent Files, Full-Text

File 348:EUROPEAN PATENTS 1978-200911

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File 349:PCT FULLTEXT 1979-2009/UB=20090129|UT=20090122

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Set      Items  Description
S1       118    (ROBOT? ? OR ROBOTIC???? OR ROBO OR AUTOMAT??? OR ANDROID?
          ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELEC-
          TRONIC??? OR ELECTROMECHANICAL OR COMPUTERIZED OR DIGITAL OR -
          SELF() SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TE-
          LEPRESENCE OR TELEMED?) (3N) (PHARMACIST? ? OR PHARMAECIST? ? OR
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PHARMACOLOGIST? ? OR PHARMAECOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARMID OR PHARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPHARMAC?

S2 394355 (ROBOT? ? OR ROBOTIC???? OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELECTRONIC? ? OR COMPUTERIZED OR DIGITAL OR SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (KIOSK? ? OR TERMINAL? ? OR INTERFACE? ? OR DEVICE? ? OR APARATUS OR STATION? ? OR DRIVE() (IN OR THRU OR THROUGH) OR AUTOMAT? ? OR MECHANISM? ? OR UNIT OR UNITS)

S3 0 S1 (3N) ("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISIT?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTION))

S4 13600 S2 (3N) ("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISIT?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTION))

S5 117020 (DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (3N) (PHARMACEUTIC??? OR PHARMAECUTIC??? OR PHARMACO????? OR PHARMAECO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)

S6 333882 (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? ? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT??? OR CARE OR PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNSEL???)

S7 68500 (PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY()TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLERK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? - PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? ? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR INTERACT????? - OR DIRECT??? OR CARE OR PRACTICE? ? OR PRACTICING OR COUNSEL???)

S8 1960 S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))

S9 8 S4 (5N) S5

S10 16 S1 (10N) S5

S11 14 S10 NOT S9

S12 306 S2 (10N) S5

S13 224 S2 (5N) S5

S14 10 S13 (10N) S6

S15 9 S14 NOT (S9 OR S11)

S16 1 S1 (10N) S6

S17 1 S16 NOT (S9 OR S11 OR S15)

S18 6 S1 (10N) (S7 OR S8)
 S19 5 S18 NOT (S9 OR S11 OR S15 OR S17)
 S20 7042 IC=B25J
 S21 14 S20 AND S5
 S22 14 S21 NOT (S9 OR S11 OR S15 OR S17 OR S19)

11/3K/13 (Item 13 from file: 349)
 DIALOG(R)File 349: PCT FULLTEXT
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00552840

**INTEGRATED AUTOMATED DRUG DISPENSER METHOD AND APPARATUS
SYSTEME ET PROCEDE POUR LA DISTRIBUTION INTEGREE DE MEDICAMENTS**

Patent Applicant/Patent Assignee:

AUTOMED TECHNOLOGIES INC

HEBRON Terrance J

VANDY BOGURT Douglas L

Inventor(s):

HEBRON Terrance J

VANDY BOGURT Douglas L

	Country	Number	Kind	Date
Patent	WO	200016213	A1	20000323
Application	WO	99US19849		19990827
Priorities	US	9898124		19980827
	US	98209995		19981211

Detailed Description:

...subject to human accounting errors. Further, servicing a large patient population requires large numbers of pharmacists .

Automated prescription - filling apparatus are available that count oral solid prescriptions. In one patented device, drugs are stored...

11/3K/14 (Item 14 from file: 349)
 DIALOG(R)File 349: PCT FULLTEXT
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00376928

**AN AUTOMATED MEDICAL PRESCRIPTION FULFILLMENT SYSTEM INCLUDING BAR CODE
SCANNER**

SYSTEME AUTOMATISE A LECTEUR DE CODES A BARRES POUR L'EXECUTION D'ORDONNANCES MEDICALES

Patent Applicant/Patent Assignee:

AUTOMATED PRESCRIPTION SYSTEMS INC

Inventor(s):

WILLIAMS Jeffrey P

WELIN Dana

MATHEWS Robert

TOWLE Alvin

ORRICK Alec

	Country	Number	Kind	Date
Patent	WO	9717671	A1	19970515
Application	WO	96US18085		19961108
Priorities	US	95555272		19951108

Detailed Description:

...electronically connected to the first computer at the imaging WO 97/17671 PCTIUS96/18085
7

electronic wand over the pharmacist's personal bar code that
the prescription is filled properly.

BRIEF DESCRIPTION OF THE DRAWINGS

Further objects, features, and advantages of the present
invention...

22/3K/4 (Item 4 from file: 348)

DIAL.OG(R)File 348: EUROPEAN PATENTS

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01957253

Apparatus and methods for parallel processing of multiple reaction mixtures

Patent Assignee:

Symyx Technologies, Inc.; (2846640)

3100 Central Expressway; Santa Clara, CA 95051; (US)

(Applicant designated States: all)

Inventor:

Dales, Cameron G.

18640 Perego Way; Saratoga CA 95070; (US)

Troth, Jonah R.

109 Brahms Way; Mountain View CA 94087; (US)

Higashihara, Kenneth S.

540 Drucilla Drive; Mountain View CA 94040; (US)

Diamond, Gary

90 S, 13th Street Apt. 1; San Jose CA 95112; (US)

Murphy, Vince

1134 Blewett Avenue; San Jose, CA 95125; (US)

Chandler, William H., Jr.

707 Carlsbad Street; Milpitas CA 95035; (US)

Frank, Trevor G.

3326 Sutton Loop; Fremont CA 94536; (US)

Freitag, J. Christopher

1110 Lincoln Street; Santa Clara CA 95050; (US)

Huffman, Dave

721 Del Mar Avenue; Livermore CA 94550; (US)

	Country	Number	Kind	Date	
Patent	EP	1577004	A2	20050921	(Basic)
	EP	1577004	A3	20051109	
Application	EP	2005013150		20020121	
Priorities	US	772101		20010126	
	US	40988		20020107	

Specification: ...without selectivity. While the cannula is paused above the rim of the mixing vial, the syringe pump is filled with 500(mu)l of a chaser solvent (toluene) from the same solvent reservoir. The...

22/3K/7 (Item 7 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

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00792708

APPARATUS AND METHOD FOR MULTIPLE SYNTHESIS OF ORGANIC COMPOUNDS ON POLYMER SUPPORT

Patent Assignee:

SELECTIDE CORPORATION; (1773420)

1580 East Hanley Boulevard; Tucson, AZ 85737; (US)

(Proprietor designated states: all)

Inventor:

KRCHNAK, Viktor

10700 N. La Reserve Drive 16206; Tucson, AZ 85737; (US)

LEBL, Michal

12460 North Granville Canyon Way; Tucson, AZ 85737; (US)

SELIGMANN, Bruce

6290 N. Nirvana Place; Tucson, AZ 85715; (US)

	Country	Number	Kind	Date	
Patent	EP	804281	A1	19971105	(Basic)
	EP	804281	A1	19980902	
	EP	804281	B1	20020605	
	WO	9622157		19960725	
Application	EP	96906212		19960119	
	WO	96US1168		19960119	
Priorities	US	375879		19950120	

Specification: ...in holding position 125. **Robot** system 20 then selects and positions a selected amino acid syringe , **dispensing** a predetermined amount of desired amino acid into first cup 100. The selected amino acid...

Claims: ...to said computer, said **automated robot** operatively coupled to said first and second sets of syringes for aspirating and dispensing reagents so as to cause said repeated synthetic cycles to be performed in accordance with...solvents and reagents to said delivery cups from which said first and second sets of syringes dispense or aspirate said solvents or reagents.

22/3K/12 (Item 5 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00800875

MANIPULATOR

Patent Applicant/Patent Assignee:

MICRODEXTERITY SYSTEMS INC

Suite 190, 6401 Poplar Avenue, Memphis, TN 38119; US; US(Residence); US(Nationality)

Inventor(s):

STUART J Michael

46 Judy Court, Corrales, NM 87048; US

	Country	Number	Kind	Date
Patent	WO	200134017	A2-A3	20010517
Application	WO	2000US30885		20001109

Priorities	US	99165046		19991112
------------	----	----------	--	----------

Detailed Description:

...by -3) 60' around the pitch axis.

In some situations, it may be convenient to dispense a drug or other substance to a patient during use of the needle 412. Therefore, the cartridge...

III. Text Search Results from Dialog

A. NPL Files, Abstract

File 35:Dissertation Abs Online 1861-2009/Feb
(c) 2009 ProQuest Info&Learning
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 Gale/Cengage
File 65:Inside Conferences 1993-2009/Mar 18
(c) 2009 BLDSC all rts. reserv.
File 2:INSPEC 1898-2009/Mar W2
(c) 2009 Institution of Electrical Engineers
File 474:New York Times Abs 1969-2009/Mar 20
(c) 2009 The New York Times
File 475:Wall Street Journal Abs 1973-2009/Mar 19
(c) 2009 The New York Times
File 99:Wilson Appl. Sci & Tech Abs 1983-2009/Feb
(c) 2009 The HW Wilson Co.
File 256:TecInfoSource 82-2009/Aug
(c) 2009 Info.Sources Inc

Set	Items	Description
S1	85	(ROBOT? ? OR ROBOTIC???? OR ROBO OR AUTOMAT??? OR AN- DROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHAN- IZED OR ELECTRONIC??? OR ELECTROMECHANICAL OR COMPUTERI?- ED OR DIGITAL OR SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (PHARMAC- IST? ? OR PHARMACEUTIST? ? OR PHARMACOLOGIST? ? OR PHARMAC- OLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGE- MENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARMACOPOL- HARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPHARMAC?)
S2	170356	(ROBOT? ? OR ROBOTIC???? OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR E- LECTRONIC??? OR COMPUTERIZED OR DIGITAL OR SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (KIOSK? ? OR TERMINAL? ? OR INTERFACE? ? OR DEVICE? ? OR APARATUS OR STATION? ? OR DRIVE() (IN OR THRU OR THROUGH) OR AUTOMAT? ? OR MECHANISM? ? OR UNIT OR UNITS)
S3	0	S1 (3N) ("NOT" OR UN) () (ATTENDED OR SUPERVISED OR AS- SISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR M- ANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNA- SSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALO- NE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT??? OR UNA- IDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LAC-

		KS OR LACKING OR "NO") () (SUPERVISI?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTION))
S4	1606	S2 (3N) ("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISI?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTION))
S5	11553	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (3N) (PHARMAEUTIC??? OR PHARMAEUTIC??? OR PHARMACO????? OR PHARMAECO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) () (SUBSTANCE? ? OR ITEM? ?) - OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)
S6	165242	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF() SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX() SITE OR ROAMING OR ROVING OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? ? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT????? OR CARE OR PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNSEL???)
S7	76990	(PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY() TECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLERK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? - OR PHYSICIAN? ? PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? ? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR INTERACT????? OR DIRECT????? OR CARE OR PRACTICE? ? OR PRACTICING OR COUNSEL???)
S8	849	S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF() SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX() SITE OR ROAMING OR ROVING OR ISOLATED OR (DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))
S9	2	S4 AND S5
S10	6	S1 AND S5
S11	6	S10 NOT S9
S12	6	RD (unique items)
S13	49	S2 AND S5
S14	46	S13 NOT (S9 OR S12)
S15	32	S14 NOT PY>2001
S16	31	RD (unique items)
S17	1	S1 AND S6
S18	1	S1 AND (S7 OR S8)
S19	64	S2 AND S8
S20	64	S19 NOT (S9 OR S12 OR S16)
S21	31	S20 NOT PY>2001
S22	30	RD (unique items)

12/3.K/6 (Item 1 from file: 99)

DIALOG(R)File 99: Wilson Appl. Sci & Tech Abs

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2364911 H.W. Wilson Record Number: BAST01021274

Service robots free nurses, pharmacists to do more important work: health-care helpers

Hill, Angela ;
Robotics World v. 19 no1 (Jan./Feb. 2001) p. 28-31

Document Type: Feature Article ISSN: 0737-7908

Service robots free nurses, pharmacists to do more important work: health-care helpers

Abstract: A robotic courier and a robot **drug distribution** system are being used in several hundred health-care facilities to free nurses and pharmacists from some of their more menial tasks. The HelpMate courier... ..can carry up to 200 pounds of pharmaceuticals, medical records, meals, radiology films, and other items between support departments and nursing stations. The Robot-Rx **drug-distribution** system from McKessonHBOC Automated Healthcare picks medications from a wire rack and places them into patient-specific cassettes, but can also scan, store, and restock...

Descriptors:

16/3,K/1 (Item 1 from file: 35)
DIALOG(R)File 35: Dissertation Abs Online
(c) 2009 ProQuest Info&Learning. All rights reserved.

929034 ORDER NO: AAD86-12917

THE INFLUENCE OF IMPORTANT MACHINE OPERATING VARIABLES ON SLUG FORMATION, FILL WEIGHT AND DRUG RELEASE FROM A DOSING-DISC TYPE AUTOMATIC CAPSULE FILLING MACHINE (INSTRUMENTATION, DISSOLUTION, ENCAPSULATION, STRESS RELAXATION)

Author: SHAH, KAMLESH B.

Degree: PH.D.

Year: 1986

Corporate Source/Institution: UNIVERSITY OF MARYLAND BALTIMORE PROFESSIONAL SCHOOLS (0373)

Source: Volume 4706B of Dissertations Abstracts International.
PAGE 2447 . 322 PAGES

...tamps used and/or their intensity. A set of modified tooling was developed for a modified single punch tablet machine to simulate a single tamping station of the capsule machine. Powder compaction experiments, using this machine at forces applicable in encapsulation pointed to the different lubrication requirements for hydrous lactose and pregelatinized starch. This simulator...

16/3,K/8 (Item 2 from file: 2)
DIALOG(R)File 2: INSPEC
(c) 2009 Institution of Electrical Engineers. All rights reserved.

07667176 INSPEC Abstract Number: C2000-09-7140-038

Title: Prescription and medication fulfilment come of age

Author Walsh, P.J.

Journal: M.D. Computing vol.17, no.3 p. 45-8

Publisher: Springer-Verlag ,

Publication Date: May-June 2000 **Country of Publication:** USA

CODEN: MDCE7 ISSN: 0724-6811

SICI: 0724-6811(200005/06)17:3L;45:PMFC;1-I

Material Identity Number: I619-2000-004

Language: English

Subfile: C

Copyright 2000, IEE

Abstract: New **electronic** solutions promise to **automate** everything - from the physician's prescription pad to the over-the-counter chat. The complex technologies that form the basis for electronic commerce may well ...
...fulfillment process online, including issues that run the gamut from technical concerns about patient privacy and security to legal strictures about customer authentication and the **distribution** of heavily regulated **drugs**. But these imposing barriers pale in comparison to the potential benefits in improved care, less costly delivery systems, and more productive interaction between doctors, patients...

16/3,K/19 (Item 13 from file: 2)

DIALOG(R)File 2: INSPEC

(c) 2009 Institution of Electrical Engineers. All rights reserved.

03838152 INSPEC Abstract Number: B87017532

Title: An alternative to screening

Author Engel, J.

Author Affiliation: Creative Autom., Sun Valley, CA, USA

Journal: Surface Mount Technology p. 7-8

Publication Date: Aug. 1986 **Country of Publication:** USA

CODEN: SMTEEL **ISSN:** 0893-3588

Language: English

Subfile: B

Abstract: ...pads as small as 0.65 mm. These problems in screening technology have stimulated vendors to offer a variety of alternatives, most of which are **robotic devices** employing dispensers designed to apply the pastes on a circuit board. Three basic types of **dispensers** are currently available: **syringe**, peristaltic pump, and piston pump.

Identifiers: ...**syringe dispensers**;

Astronomical Objects:

16/3,K/20 (Item 14 from file: 2)

DIALOG(R)File 2: INSPEC

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03583757 INSPEC Abstract Number: C86010350

Title: Man-machine interface: automated encoding

Author Gabrieli, E.R.; Speth, D.; Casiraghi, E.

Author Affiliation: Gebrieli Med. Inf. Syst. Inc., Buffalo, NY, USA

Journal: Journal of Clinical Computing vol.13, no.4 p. 109-12

Publication Date: 1985 **Country of Publication:** USA

CODEN: JCLCB7 **ISSN:** 0090-1091

Conference Title: Milano Medicina, World Conference, 1984

Conference Date: Nov. 1984 **Conference Location:** Milan, Italy

Language: English

Subfile: C

Title: Man-machine interface: automated encoding

Abstract: Although wholesale computerisation is now an economic imperative in the USA, progress is still very slow because clinical medicine is not prepared to interface with the machine. In order to fully exploit the capabilities of computers, the barrier between our traditional communication habits and the computer must first be removed. The purpose...

Identifiers: man machine interface;

Astronomical Objects:

16/3,K/21 (Item 15 from file: 2)

DIALOG(R)File 2: INSPEC

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02850752 **INSPEC Abstract Number:** A82047708, B82027156, C82018055

Title: Automatic dispensing and preparation units of radiopharmaceuticals for hospital use

Author Kuusi, J.; Saukkonen, H.; Kukkonen, H.

Author Affiliation: Tech. Res. Centre of Finland, Espoo, Finland

Journal: Transactions of the American Nuclear Society vol.39 p. 31-2

Publication Date: Nov.-Dec. 1981 **Country of Publication:** USA

CODEN: TANSAO **ISSN:** 0003-018X

Conference Title: 1981 Winter Meeting of the American Nuclear Society

Conference Date: 29 Nov.-3 Dec. 1981 **Conference Location:** San Francisco, CA, USA

Language: English

Subfile: A B C

Title: Automatic dispensing and preparation units of radiopharmaceuticals for hospital use

Abstract: A description is given of automatic preparation and dispensing units for ^{131}I and $^{99}\text{Tc}/\text{sup m}/$ radioisotope studies. The ^{131}I unit dispenses oral solutions in the activity range 10... control. The ^{99}Tc labelling and dispensing system labels compounds with $^{99}\text{Tc}/\text{sup m}/$ in the activity range 3-100 mCi, and dispenses them into disposable syringes. This is also microprocessor controlled.

Identifiers: ...automatic preparation unit; automatic dispensing unit;

Astronomical Objects:

16/3,K/22 (Item 16 from file: 2)

DIALOG(R)File 2: INSPEC

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01949124 **INSPEC Abstract Number:** C76021933

Title: Automation of the drug distribution in hospitals

Author van der Kleijn, E.; Hoelen, A.J.; Rots, H.J.; van der Kuy, A.

Journal: Informatie vol.18, no.4 p. 234-40

Publication Date: April 1976 **Country of Publication:** Netherlands

CODEN: INFTCR **ISSN:** 0019-9907

Language: Dutch

Subfile: C

Title: Automation of the drug distribution in hospitals

Abstract: Automated clinical pharmacology is described mainly with reference to hospital work in Nijmegen and Tilburg. Physical aspects include the 'blister' packing units associated with automated label printing. A five symbol code is used for drug identification. Thereafter planning is summarised on a loose leaf book system basis.

Documentation control takes...
Identifiers: drug distribution;
Astronomical Objects:

17/3,K/1 (Item 1 from file: 2)
DIAL.OG(R)File 2: INSPEC
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06567222 **INSPEC Abstract Number:** C9706-6110B-023
Title: Embedded software poses challenges with growth, complexity
Author Williams, T.
Journal: Computer Design (International Edition) vol.35, no.10 p. 91-2
Publisher: PennWell Publishing ,
Publication Date: Sept. 1996 **Country of Publication:** USA
CODEN: CDESEL **ISSN:** 0010-4566
SICI: 0010-4566(199609)35:10L;91:ESPC;1-L
Material Identity Number: A493-97001
Language: English
Subfile: C
Copyright 1997, IEE

Abstract: ...software works well when it's not noticed, when you pick up the phone, drive your car, check out at the supermarket, or click the **remote control** of your stereo or TV. The pervasive nature of software means it carries the specialized knowledge and skill of many experts who also may or may not be expert programmers. The software's users may be telecommunications engineers, automotive engineers, **chemists**, **machine-tool** specialists, radar experts, instrumentation specialists, the list is endless. And they all want more and more sophisticated software support for their work. This demand...

22/3,K/2 (Item 2 from file: 35)
DIAL.OG(R)File 35: Dissertation Abs Online
(c) 2009 ProQuest Info&Learning. All rights reserved.

854103 ORDER NO: AAD84-20165
INVESTIGATION OF NEUROMOTOR CONTROL AND SENSORY SAMPLING IN BILATERAL TELEOPERATION (ROBOTICS, MANIPULATORS, CONTROL/DISPLAY)

Author: CORKER, KEVIN MICHAEL
Degree: PH.D.
Year: 1984
Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, LOS ANGELES (0031)
Source: Volume 4506B of Dissertations Abstracts International.
PAGE 1938 . 247 PAGES

This investigation of man/machine interface in teleoperation addresses: (a) human neuromotor control interacting with a bilateral force reflecting hand controller, and (b) human information seeking and feedback valuation in control of a remote manipulator system. A teleoperated manipulator system is an electro-mechanical device that serves to project human manipulative behavior into an environment that is either hostile to, or remote from the human operator. The multiple roles of the human operator in control of teleoperators impose constraints on analytic descriptions of that operator's behavior in control and system...

22/3,K/4 (Item 2 from file: 2)

DIALOG(R)File 2: INSPEC

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08162646 INSPEC Abstract Number: C2002-02-3390T-020

Title: The design of multimodal human-machine interface for teleoperation

Author Wusheng Chou; Tianmiao Wang

Author Affiliation: Robotics Res. Inst., Beijing Univ. of Aeronaut. & Astronaut., China

Conference Title: 2001 IEEE International Conference on Systems, Man and Cybernetics. e-Systems and e-Man for Cybernetics in Cyberspace (Cat.No.01CH37236) **Part** vol.5 p. 3187-92 vol.5

Publisher: IEEE , Piscataway, NJ, USA

Publication Date: 2001 **Country of Publication:** USA 5 vol.3494 pp.

ISBN: 0 7803 7087 2 **Material Identity Number:** XX-2001-02744

U.S. Copyright Clearance Center Code: 0-7803-7087-2/01/\$10.00

Conference Title: Proceedings of IEEE International Conference on Systems, Man & Cybernetics

Conference Sponsor: Raytheon

Conference Date: 7-10 Oct. 2001 **Conference Location:** Tucson, AZ, USA

Language: English

Subfile: C

Copyright 2002, IEE

Title: The design of multimodal human-machine interface for teleoperation

Abstract: ...human operator's intelligence into the places that are inaccessible or dangerous to people, or where expertise and resources are not available. Due to the **distance** between the **human operator** and **remote** environment, the human-**machine interface** is an important component for the overall system performance capabilities and efficiency. The paper proposes a new design method of multimodal interface for teleoperation. A... ..actual live images, audio and force information are organized and presented to human operators in an appropriate way. Experimental results demonstrate that the multimodal human-**machine interface** can reduce a human operator's mental workload and facilitate teleoperation. Some key technologies concerned with this multimodal interface, such as the synchronization mechanism of...

Identifiers: multimodal human-**machine interface** design...

22/3,K/5 (Item 3 from file: 2)

DIALOG(R)File 2: INSPEC

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07567699 INSPEC Abstract Number: C2000-06-3390T-004

Title: Web interfaces for mobile robots in public places

Author Schulz, D.; Burgard, W.; Fox, D.; Thrun, S.; Cremers, A.B.

Author Affiliation: Dept. of Comput. Sci., Bonn Univ., Germany

Journal: IEEE Robotics & Automation Magazine vol.7, no.1 p. 48-56

Publisher: IEEE ,

Publication Date: March 2000 **Country of Publication:** USA

CODEN: IRAMEB **ISSN:** 1070-9932

SICI: 1070-9932(200003)7:1L;48:IMRP;1-R

Material Identity Number: B468-2000-002

U.S. Copyright Clearance Center Code: 1070-9932/2000/\$10.00

Language: English

Subfile: C

Copyright 2000, IEE

Title: Web interfaces for mobile robots in public places

Abstract: ...and populated environments. In the latter scenario, robots play the role of a physical mediator, enabling remote people to acquire information, explore, manipulate, communicate, and interact physically with people far away. The article describes a series of web interfaces designed to remotely operate mobile robots in public places through the web. The design of these interfaces... ..interconnections, control brokering, and shared control as well as interaction with people in the robot's environment, which arise naturally in applications with web-based robot control. The interfaces have been tested extensively using two deployed service robots, which were installed as interactive tour guides in two museums. The article also discusses trade-offs...

22/3,K/6 (Item 4 from file: 2)

DIAL.OG(R)File 2: INSPEC

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07186087 INSPEC Abstract Number: C1999-04-3390C-064

Title: Multi-modal human-robot interface for interaction with a remotely operating mobile service robot

Author Fischer, C.; Schmidt, G.

Author Affiliation: Inst. of Autom. Control Eng., Tech. Univ. Munchen, Germany

Journal: Advanced Robotics vol.12, no.4 p. 397-409

Publisher: VSP ,

Publication Date: 1998 **Country of Publication:** Netherlands

CODEN: ADROEI **ISSN:** 0169-1864

SICI: 0169-1864(1998)12:4L:397:MMHR;1-F

Material Identity Number: L570-1999-001

Language: English

Subfile: C

Copyright 1999, IEE

Title: Multi-modal human-robot interface for interaction with a remotely operating mobile service robot

Abstract: ...discusses requirements for information exchange between a human operator and a semi-autonomous service robot operating in a remote indoor environment. The resulting multimodal HuMan-Robot Interface (MRI) allows specification of various types of robot activities by use of an advanced system for natural spoken user-independent speech understanding and flexible robot...

Identifiers: human-robot interface;

Astronomical Objects:

22/3,K/7 (Item 5 from file: 2)

DIAL.OG(R)File 2: INSPEC

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07153666 INSPEC Abstract Number: A1999-05-2875-016, C1999-03-3390T-018

Title: Telerobotics for dry size reduction

Author Sturm, A.J., Jr.; LaValle, D.R.

Author Affiliation: PaR Syst. Inc., Shoreview, MN, USA

Conference Title: Proceedings of the ANS Seventh Topical Meeting on Robotics and Remote Systems Part vol.1 p. 209-16 vol.1

Publisher: ANS , La Grange Park, IL, USA

Publication Date: 1997 **Country of Publication:** USA 2 vol. xvi+1177 pp.

ISBN: 0 89448 617 9 **Material Identity Number:** XX-1997-00710

Conference Title: Proceedings of the American Nuclear Society Seventh Topical Meeting on Robotics and Remote Systems

Conference Sponsor: American Nucl. Soc.; Assoc. Robotics in Hazardous Environ.; IEEE; Savannah River Technol. Center; Utilities/Manuf. Robot Users Group

Conference Date: 27 April-1 May 1997 **Conference Location:** Augusta, GA, USA

Language: English

Subfile: A C

Copyright 1999, IEE

Abstract: ...laboratory research activities, has challenged PaR Systems to develop a new line of telerobotics, exploiting new technology, to enhance EM processes. Telerobotics systems permit the **human operator** to **direct** and supervise a **remote robotic mechanism** by incorporating adaptive control into the process. The several different cell configurations and controls architecture are presented, which are designed specifically to support large part...

22/3,K/12 (Item 10 from file: 2)

DIALOG(R)File 2: INSPEC

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06147135 **INSPEC Abstract Number:** C9602-3390T-014

Title: Telepresence application for real task efficiency improvement in a wide and hostile environment

Author Meregalli, A.; Brizzi, A.; Perucelli, G.

Author Affiliation: Robotics Lab., Centro Elettrotecnico Sperimentale Italiano, Milano, Italy

Journal: Proceedings of the SPIE - The International Society for Optical Engineering **Conference Title:** Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.2351 p. 148-59

Publisher: SPIE-Int. Soc. Opt. Eng.

Publication Date: 1994 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

SICI: 0277-786X(1994)2351L:148:TART;1-4

Material Identity Number: C574-95033

U.S. Copyright Clearance Center Code: 0 8194 1686 X/94/\$6.00

Conference Title: Telemanipulator and Telepresence Technologies

Conference Sponsor: SPIE; IEEE NCC

Conference Date: 31 Oct.-1 Nov. 1994 **Conference Location:** Boston, MA, USA

Language: English

Subfile: C

Copyright 1996, IEE

Abstract: The goal of the project is to investigate new features or devices for teleoperated control and man-machine interfaces, with the aim to improve the efficiency and productivity in a real task. The telepresence project here reported has been realized jointly by the Robotics...-based controller. The system has been equipped with a stereo vision tool, a system for position and orientation computing and other on-board sensors. A control architecture implementing **remote human** supervision and on-board security check has been realized using a self made telepresence system with head mounted displays and head movement tracking system. This...-high voltage lines. Several test series have been carried out, in order to test the efficiency of the teleoperated system and the efficacy of man-machine interface. These tests, that have concerned the areas of navigation, manipulation and visual inspection, have showed benefits that a teleoperated system can obtain from a special...

Identifiers: ...man-machine interfaces;

Astronomical Objects:

22/3,K/13 (Item 11 from file: 2)

DIALOG(R)File 2: INSPEC

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06147134 **INSPEC Abstract Number:** A9603-2843F-008, B9602-8220-024, C9602-3390T-013

Title: State of the art in nuclear telerobotics: focus on the man/machine connection

Author Greaves, A.E.R.

Author Affiliation: Acuity Imaging Inc., Nashua, NH, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering **Conference Title:** Proc.

SPIE - Int. Soc. Opt. Eng. (USA) vol.2351 p. 130-47

Publisher: SPIE-Int. Soc. Opt. Eng.

Publication Date: 1994 **Country of Publication:** USA

CODEN: PSISDG **ISSN:** 0277-786X

SICI: (0277-786X(1994)2351L:130:NTT;1-R

Material Identity Number: C574-95033

U.S. Copyright Clearance Center Code: 0 8194 1686 X/94/\$6.00

Conference Title: Telemanipulator and Telepresence Technologies

Conference Sponsor: SPIE; IEEE NCC

Conference Date: 31 Oct.-1 Nov. 1994 **Conference Location:** Boston, MA, USA

Language: English

Subfile: A B C

Copyright 1996, IEE

Abstract: The interface between the **human controller** and **remotely operated** device is the crux of telerobotic investigation today. This human-to-machine connection is the means by which commands are communicated to the device, as... ..present information in a meaningful manner to the user. Virtual reality, and multi degree-of-freedom input devices lend the ability to augment the man/**machine interface**, and handle burgeoning amounts of data in a more intuitive and anthropomorphically correct manner. Along with the aid of 3-D input and output devices...

Identifiers: ...man/**machine interface**;

Astronomical Objects:

22/3,K/14 (Item 12 from file: 2)

DIALOG(R)File 2: INSPEC

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06064679 **INSPEC Abstract Number:** B9511-6140C-095, C9511-7420-043

Title: Multimedia Control Interface in Teleoperation based on "Virtual-Real" approach

Author Mallem, M.; N'Zi, C.; Chavand, F.

Author Affiliation: Lab. Robotique, Evry, France

Conference Title: ORIA 94. From Telepresence Towards Virtual Reality p. 307-18

Publisher: Inst. Int. Robotique & Intelligence Artificielle Marseille, Marseille, France

Publication Date: 1994 **Country of Publication:** France 364 pp.

Conference Title: Proceedings ORIA 94. 5th International Symposium and Business Convention

Conference Date: 5-6 Dec. 1994 **Conference Location:** Marseille, France

Language: English

Subfile: B C

Copyright 1995, IEE

Abstract: ...and associated assistance functions. The superimposition of the real and virtual worlds is carried out thanks to a calibration of the multisensor system. The **man machine interface** functions deal mainly with the building of graphics aids to improve the perception, updating the geometric database of the robotic site, and the video control... ..world. The wireframe graphics is chosen for two reasons: the first one is to avoid camera image hiding and the second reason is to allow **human operator** to perceive the **remote** scene in case of degraded

vision.

Identifiers: ...man machine interface functions...

Astronomical Objects:

22/3,K/18 (Item 16 from file: 2)

DIAL.OG(R)File 2: INSPEC

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05119688 **INSPEC Abstract Number:** A9209-2843-012, C9205-3390-033

Title: A brief history of robots in the US (nuclear power)

Journal: Nuclear Engineering International vol.37, no.452 p. 34-5

Publication Date: March 1992 **Country of Publication:** UK

CODEN: NEINBF **ISSN:** 0029-5507

Language: English

Subfile: A C

Abstract: Robot use in the nuclear industry has increased considerably in the last ten years, and **robotic devices** are now routinely considered as an option in planning maintenance programmes. Although development on a wide range of devices is underway, apart from those areas... ..mostly teleoperated robots used for inspection, surveillance and monitoring. Few robots now in use are sophisticated enough for O&M tasks and most depend on **direct human control**, usually from a **remote** location.

22/3,K/19 (Item 17 from file: 2)

DIAL.OG(R)File 2: INSPEC

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05050284 **INSPEC Abstract Number:** C9201-7420-058

Title: Virtual reality in telerobotics

Author Stone, R.J.

Conference Title: Computer Graphics 90. Proceedings of the Conference p. 29-39

Publisher: Blenheim Online , London, UK

Publication Date: 1990 **Country of Publication:** UK x+386 pp.

ISBN: 0 86353 253 5

Conference Date: 6-8 Nov. 1990 **Conference Location:** London, UK

Language: English

Subfile: C

Abstract: ...factors research programme. Codenamed 'VERDEX' (virtual environment remote driving experiment) the research involved the development of an experimental test bed for evaluating advanced human-system **interfaces** incorporating **virtual** reality and robotic telepresence technologies. The test bed takes the form of a remote driving simulator, using Cybermotion K2A Mobile Robot, equipped with a high-speed stereo camera and microphone pan/tilt unit. Audio-visual information is relayed to a **remote human operator**, equipped with helmet-mounted display system, a VPL DataGlove and a new UK tactile feedback glove assembly. Interaction with (stereo) virtual control panels-for the...

22/3,K/29 (Item 2 from file: 99)

DIAL.OG(R)File 99: Wilson Appl. Sci & Tech Abs

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1127552 **H.W. Wilson Record Number:** BAST93059715

The human/robot interface

Wiker, Steven F ;

Aerospace America v. 31 (Oct. '93) p. 30-3

Document Type: Feature Article ISSN: 0740-722X

The human/robot interface

Abstract: ...to lower economic impediments to space activities. Increasing astronaut mission labor costs severely challenge the economic feasibility of future space missions. Telerobotics refers to the **human operation of remotely positioned electromechanical robotic devices**. The operational, economic, and social utility of telerobotic technology has been proved from previous experience with automation and robotics in the nuclear and undersea arenas...

File 5:Biosis Previews(R) 1926-2009/Mar W3
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File 73:EMBASE 1974-2009/Mar 18
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File 155:MEDLINE(R) 1950-2009/Mar 17
(c) format only 2009 Dialog
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File 74:Int. Pharm. Abs 1970-2009/Dec B2
(c) 2009 The Thomson Corporation
File 42:Pharm. News Index 1974-2009/Feb W3
(c) 2009 ProQuest Info&Learning

Set	Items	Description
S1	966	(ROBOT? ? OR ROBOTIC??? OR ROBO OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELECTRONIC??? OR ELECTROMECHANICAL OR COMPUTERIZED OR DIGITAL OR -SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (PHARMACIST? ? OR PHARMACEIST? ? OR PHARMACOLOGIST? ? OR PHARMACOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIS-T? ? OR PHARM OR PHARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPH-ARMAC?)
S2	105018	(ROBOT? ? OR ROBOTIC??? OR AUTOMAT??? OR ANDROID? ? OR CY-BORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELECTRONIC?-?? OR COMPUTERIZED OR DIGITAL OR SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (K-IOSK? ? OR TERMINAL? ? OR INTERFACE? ? OR DEVICE? ? OR APARAT-US OR STATION? ? OR DRIVE() (IN OR THRU OR THROUGH) OR AUTOMAT? ? OR MECHANISM? ? OR UNIT OR UNITS)
S3	4	S1 (3N) (("NOT" OR UN) ()) (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DI-RECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCO-MPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISIT-?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTI-ON))
S4	850	S2 (3N) (("NOT" OR UN) ()) (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DI-RECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCO-MPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO

OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED
OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISI-
?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECTI-
ON))

S5 259817 (DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPA-
RATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DIST-
RIBUT??? OR REFILL???) (3N) (PHARMACEUTIC??? OR PHARMAEUTIC???
OR PHARMACO????? OR PHARMAECO????? OR DRUG OR DRUGS OR PRESC-
RIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDIC-
AL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ?
OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)

S6 165229 (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE
OR OFF () SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR
FIELD OR EX () SITU OR ROAMING OR ROVING OR (DIFFERENT OR OTHER-
) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR OPERAT???
OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR D-
ISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATIO-
N? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT???
OR CARE OR PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNSE-
EL???)

S7 1495236 (PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY () T-
ECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLE-
RK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? -
PERSON? ? OR PEOPLE? ?) (3N) (CONTROL? OR OPERAT??? OR MANIPULA-
T??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR INTERACT????? -
OR DIRECT????? OR CARE OR PRACTICE? ? OR PRACTICING OR COUNSE-
L???)

S8 2407 S7(3N) (REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR O-
FFSITE OR OFF () SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLY-
ING OR FIELD OR EX () SITU OR ROAMING OR ROVING OR ISOLATED OR
(DIFFERENT OR OTHER) () (LOCATION? ? OR PLACES))

S9 4 S4 AND S5
S10 4 S9 NOT S3
S11 1 RD (unique items)
S12 202 S1 AND S5
S13 6 S12 AND S6
S14 4 RD (unique items)
S15 84 S12 AND S7
S16 0 S12 AND S8
S17 33 S15 NOT PY>2001
S18 27 RD (unique items)
S19 26 S18 NOT (S3 OR S10 OR S13)
S20 541 S2 AND S5
S21 12 S20 AND S6
S22 10 S21 NOT (S3 OR S10 OR S13 OR S17)
S23 8 RD (unique items)
S24 0 S20 AND S8
S25 57 S20 AND S7
S26 53 S25 NOT (S3 OR S10 OR S13 OR S17 OR S22)
S27 26 S26 NOT PY>2001
S28 22 RD (unique items)
S29 0 S1 AND S8
S30 37 S2 AND S8
S31 37 S30 NOT (S3 OR S10 OR S13 OR S17 OR S22 OR S26)
S32 12 S31 NOT PY>2001
S33 11 RD (unique items)

19/3,K/1 (Item 1 from file: 73)
DIALOG(R)File 73: EMBASE
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0078696750 EMBASE No: 2001303080

Efficiency improvement of dispensing of drugs for injection by a total automatic injection dispenser system including infusion fluids and its evaluation

Ishimoto K.; Uchida Y.; Fujimoto N.; Uchiyumi K.; Takahama K.; Kamiya A.
Department of Pharmacy, Yamaguchi University Hospital, 1144 Kogushi, Ube 755-8505, Japan
Corresp. Author/Affil: Ishimoto K.: Department of Pharmacy, Yamaguchi University Hospital, 1144 Kogushi, Ube 755-8505, Japan

Yakugaku Zasshi (Yakugaku Zasshi) (Japan) September 12, 2001 , 121/8 (631-636)

CODEN: YKKZA **ISSN:** 0031-6903

Item Identifier (DOI): [10.1248/yakushi.121.631](https://doi.org/10.1248/yakushi.121.631)

Document Type: Journal ; Article **Record Type:** Abstract

Language: Japanese **Summary language:** English; Japanese

Number of References: 10

Efficiency improvement of dispensing of drugs for injection by a total automatic injection dispenser system including infusion fluids and its evaluation

For the appropriate use of **drugs** for injection, injection **dispensing** by pharmacists has been initiated at various institutions. With this movement, automatic injection dispensers have actively been developed. In our hospital, an injection order system...

19/3,K/2 (Item 2 from file: 73)
DIALOG(R)File 73: EMBASE
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0078309493 EMBASE No: 2000359096

ASHP national survey of pharmacy practice in acute care settings: Dispensing and administration - 1999

Ringold D.J.; Santell J.P.; Schneider P.J.

Ctr. on Pharmacy Practice Management, American Soc. of Health-Syst. Pharm., Bethesda, MD, United States

Corresp. Author/Affil: Santell J.P.: Ctr. on Pharmacy Practice Management, American Soc. of Health-Syst. Pharm., Bethesda, MD, United States

Corresp. Author Email: jsantell@ashp.org

American Journal of Health-System Pharmacy (Am. J. Health-Syst. Pharm.) (United States) October 1, 2000 , 57/19 (1759-1775)

CODEN: AHSPE **ISSN:** 1079-2082

Document Type: Journal ; Article **Record Type:** Abstract

Language: English **Summary language:** English

Number of References: 7

Results of the 1999 ASHP national survey of pharmacy practice in acute care settings that pertain to **drug**

dispensing and administration practices are presented. Pharmacy directors at 1050 general and children's medical-surgical hospitals in the United States were surveyed by mail. The ... of respondents described their in-patient pharmacy's distribution system as centralized. Of those with centralized distribution, 77.4% indicated that their system was not **automated**. Decentralized **pharmacists** were used in 29.4% of the hospitals surveyed; an average of 58.9% of their time was spent on clinical, as opposed to distributive, activities. About 67% of directors reported pharmacy computer access to hospital laboratory data, 38% reported access to **automated medication-dispensing**-unit data, and 19% reported computer access to hospital outpatient affiliates. Only 13% of hospitals had an electronic medication order-entry system; another 27% reported they were in the process of developing such a system. Decentralized **medication storage and distribution** devices were used in 49.2% of hospitals, while 7.3% used bedside information systems for **agement**. Machine-readable coding was used for inpatient pharmacy... Fewer than 15% reported that staff were penalized for making or contributing to an error. Pharmacists are making a significant contribution to the safety of **medication distribution** and administration. The increased use of technology to improve efficiency and reduce costs will require that pharmacists continue to focus on the impact of changes...

Medical Descriptors:

*

article; automation; centralization; drug information; hospital finance; outpatient care; patient coding; pharmacist; priority journal ; questionnaire; United States

19/3,K/9 (Item 3 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

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00321439 38-01989

CONCEPT PHARMACY: NDSU'S VISION FOR THE FUTURE

Peterson, C. D.

North Dakota State Univ., ND, USA

American Association of Colleges of Pharmacy Annual Meeting, V101, (Jul), p296, 2000

Abstract of Meeting Presentation

Language: English **Record Type:** Abstract

...planned at North Dakota State University for training pharmacy students in all aspects of contemporary community pharmacy practice. It includes a dispensing laboratory using both **pharmacy technicians** and contemporary **automation**; instruction in prescription and nonprescription drugs, such as alternative or herbal remedies; state of the art computer technology; a patient education classroom; drug information center... a community pharmacy as one integrated system, the Concept Pharmacy will provide hands on training in supervising pharmacy operations, including work flow management, extemporaneous compounding, **filling prescriptions**, including working with a pharmacy automated **dispensing** system, **drug** information for patients, physicians, and other health professionals, health education, screening, and monitoring, consulting services for home care and nursing facilities, and procuring reimbursement for... create a unique and innovative educational environment that would not only train pharmacy students for their future practices but would also be used to **retrain practicing pharmacists** within the region with new skills and services to offer their patients. In addition, the Concept Pharmacy will integrate and involve students from all 4...

19/3,K/11 (Item 5 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

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00298998 36-06097

AUTOMATION'S EMERGING ROLE AS A NEW QUALITY ASSURANCE TOOL FOR THE LONG-TERM CARE PHARMACIST

Josephson, D. C.

Specialized Pharm. Serv., an Omnicare Co., Grand Rapids, MI, USA

Consultant Pharmacist (USA), V13, (Sep), p1028-1032, 1998

CODEN: CNPHIEB **ISSN:** 0888-5109 **Language:** English **Record Type:** Abstract

Some quality assurance issues addressed in a separately published paper about automation in pharmacy that pertain to **pharmacists practicing** in long-term care settings utilizing automated **medication dispensing** systems are discussed.

Descriptors: Quality assurance -- dispensing, automation; Dispensing -- automation, quality assurance; Automation -- dispensing, quality assurance; Long term care facilities -- **dispensing**, automation; **Drug distribution** systems -- **automation**, quality assurance; **Pharmacists** -- long term care facilities, automated dispensing; Robotics -- dispensing, quality assurance

19/3,K/14 (Item 8 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

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00291655 35-12564

ANALYSIS OF MEDICATION ADMINISTRATION TIME AND THE EFFECTS OF AN AUTOMATED DISTRIBUTION SYSTEM

Shirley, K. L.

Mercy Hospital, 746 Jefferson Avenue, Scranton, PA 18501, USA Internet: KSHI1754@URIACC.URLEDU

ASHP Midyear Clinical Meeting, V33, (Dec), pP-286E, 1998

Abstract of Meeting Presentation

Language: English **Record Type:** Abstract

The effects of an automated **drug distribution** system on **medication** administration to newly admitted patients were evaluated. Pyxis Medstation Rx and Supply Pyxis were implemented throughout a 270 bed tertiary care facility. Chart information on... ..proportion of medications administered as scheduled. Medication was 2.3 times more likely to be administered as scheduled after Pyxis implementation. Improving the efficiency of **drug distribution** may decrease pharmacists' time devoted to non-cognitive functions. (Schwarz et. al.) Increasing the time available and utilized for the implementation of pharmaceutical care by **pharmacists** should have a positive effect on patient outcomes. Future studies need to examine the significance of therapeutic interventions made before and after implementation of automation.

Descriptors: Practice Interest Areas -- **Drug Distribution**/Automation, meeting presentations; ASHP meeting abstracts -- automated dispensing; Automation -- dispensing, hospital pharmacy; Pharmacy, institutional, hospital -- services, automated dispensing; Dispensing -- automation, hospital pharmacy; Administration -- hospital pharmacy, automated dispensing; **Pharmacists**, hospital -- **pharmaceutical care**, automated dispensing; **Pharmaceutical care** -- **pharmacists**, hospital, automated dispensing; **Drug distribution** systems -- hospital pharmacy, automated dispensing

19/3,K/19 (Item 13 from file: 74)
DIAL.OG(R)File 74: Int.Pharm.Abs
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00241879 32-06858

TECHNOLOGY IN PHARMACY: FRIEND OR FOE?

[Anonymous]

ComputerTalk for the Pharmacist (USA), V14, (Nov-Dec), p16, 18-23, 28-29, 1994

CODEN: COPHIE **ISSN:** 0736-3893 **Language:** English **Record Type:** Abstract

...prescriptions get into patients' hands, the need for pharmacists to let go of the dispensing function in favor of automation, and the freeing of the **pharmacists'** time for pharmaceutical **care** such as health management, economic outcomes, and treatment protocols are discussed.

Automated **medication** and supply **distribution** systems that are configurable to any type of patient-care facility, using support staff to operate and manage technology, mobile computing, computerized decision-support information...

Descriptors: Technology -- pharmacy, impact; Pharmacy -- technology, impact; Dispensing -- pharmacy, technology; **Pharmacists** -- role, technology; Pharmaceutical **care** -- technology, impact; Computers -- pharmacy, impact; **Pharmacists** consultant -- technology, impact; **Automation** -- pharmacy, impact

19/3,K/20 (Item 14 from file: 74)
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00239741 32-05323

PATIENT CARE FILLS OUT VA PHARMACISTS' SCHEDULE, AS AUTOMATION LIFTS THE DISPENSING LOAD

Landis, N. T.

Am. Soc. of Health-Syst. Pharm., 7272 Wisconsin Ave., Bethesda, MD 20814, USA

American Journal of Health-System Pharmacy, V52, (Mar 15), p584, 587-588, 1995

Notes

CODEN: AHSPEK **ISSN:** 1079-2082 **Language:** English **Record Type:** Abstract

PATIENT CARE FILLS OUT VA PHARMACISTS' SCHEDULE, AS AUTOMATION LIFTS THE DISPENSING LOAD

The use of automated consolidated mail outpatient pharmacy (CMOP) in **filling** mail-out **prescriptions** at the Department of Veterans Affairs (VA) facilities is described.

As the implementation of CMOP dispensing has diminished the workload, VA pharmacists have more time...

Descriptors: Automation -- dispensing, consolidated mail outpatient pharmacy; **Dispensing** -- **prescriptions**, consolidated mail outpatient pharmacy; Pharmacy -- mail order, consolidated; **Prescriptions** -- mail order, consolidated; Department of Veterans Affairs -- automation, consolidated mail outpatient pharmacy; **Pharmacists** -- work load, consolidated mail outpatient pharmacy; Work load -- pharmacists, consolidated mail outpatient pharmacy; **Drug distribution** systems -- automation, consolidated mail outpatient pharmacy; **Patient care** -- **pharmacists**, consolidated mail outpatient pharmacy; **Patients** -- outpatients, mail order pharmacy

19/3,K/21 (Item 15 from file: 74)
DIALOG(R)File 74: Int.Pharm.Abs

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00198808 29-05731

USE OF AN AUTOMATED MEDICATION STORAGE AND DISTRIBUTION SYSTEM

Lee, L. W.; Wellman, G. S.; Birdwell, S. W.; Sherrin, T. P.

Coll. of Pharm., Ohio State Univ., 500 W. 12th Ave., Columbus, OH 43210, USA

American Journal of Hospital Pharmacy (USA), V49, (Apr), p851-855, 1992

CODEN: AJHPA9 **ISSN:** 0002-9289 **Language:** English **Record Type:** Abstract

USE OF AN AUTOMATED MEDICATION STORAGE AND DISTRIBUTION SYSTEM

The installation of an automated medication storage and dispensing system on 2 nursing units of a 1000 bed tertiary care hospital is described; it was stocked with floor-stock controlled substances and noncontrolled medications... ..volume intravenous (IV) injections, and IV administration sets.

After installation, nursing personnel spent less time on medication-related activities, charting, and documentation and more time interacting with patients. Pharmacy technicians spent more time on floor stock and less time on billing activities. Both nurses and pharmacy technicians indicated that the system should remain in use...

19/3,K/23 (Item 17 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

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00166529 27-02627

ROBOTIC SYSTEM FOR IV ANTINEOPLASTIC DRUG PREPARATION: DESCRIPTION AND PRELIMINARY EVALUATION UNDER SIMULATED CONDITIONS

Cote, D. D.; Torchia, M. G.

Pharm. Innovations Group, St. Boniface Gen. Hosp. Res. Ctr., 351 Tache Ave., Winnipeg, Manitoba, Canada R2H 2A6

American Journal of Hospital Pharmacy (USA), V46, (Nov), p2286-2293, 1989

...humans performing the same tasks under simulated conditions. The robotic system required less time than humans to fill the order and eliminated the possibility of direct human contact with the IV admixture.

The robotic system developed to assist in the preparation of IV antineoplastic drugs was as accurate as a manual system and was more time efficient.

23/3,K/2 (Item 2 from file: 5)

DIALOG(R)File 5: Biosis Previews(R)

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13938318 Biosis No.: 199799572378

Virtual reality and telepresence for military medicine

Author: Satava R

Author Address: Yale Univ. Sch. Med., 40 Temple St., New Haven, CT 06510, USA**USA

Journal: Annals Academy of Medicine Singapore 26 (1): p 118-120 1997 1997

ISSN: 0304-4602

Document Type: Article

Record Type: Abstract

Language: English

Abstract: ...This will permit the medic to locate the most critically wounded soldier. Once stabilised, he will be placed in a critical care pod, a fully **automated** intensive care **unit** in a stretcher, which will monitor his vital signs, **administer** fluids and **medications** and provide environmental protection. If immediate surgery is needed, a remote telepresence surgery vehicle will come to the wounded soldier, the medic will place him in the vehicle, and a surgeon will **operate remotely** using telepresence surgery from a distant Mobile Advance Surgical Hospital (MASH) to the combat zone. Also, the expertise from any specialist will be available from... ..and training in combat casualty care, virtual reality simulators are being implemented. This same scenario can be utilised in civilian health care, especially in providing **care** to patients in **remote** areas who do not currently have access to simple, let alone sophisticated, health care.

28/3,K/4 (Item 4 from file: 73)
DIALOG(R)File 73: EMBASE
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0074104132 **EMBASE No:** 1989284635

Robotic system for i.v. antineoplastic drug preparation: Description and preliminary evaluation under simulated conditions

Cote D.D.; Torchia M.G.
St. Boniface General Hospital Research Centre, Winnipeg, Man. R2H 2A6, Canada
Corresp. Author/Affil: : St. Boniface General Hospital Research Centre, Winnipeg, Man. R2H 2A6, Canada

American Journal of Hospital Pharmacy (AM. J. HOSP. PHARM.) (United States) December 29, 1989 , 46/11 (2286-2293)

CODEN: AJHPA **ISSN:** 0002-9289

Document Type: Journal ; Article **Record Type:** Abstract

Language: English **Summary language:** English

...bit microcomputer, a bar-code reader, a voice synthesizer, and an electronic balance. The software includes a menu-driven main program, executable files for each **robotic** activity, and an **interface** to allow control to pass between the program and the files. The program has routines for matching the software to the hardware; for entering information... ..the robotic system and humans performing the same tasks under simulated conditions. The robotic system required less time than humans and eliminated the possibility of **direct human** contact with the i.v. admixture. Under simulated conditions, a robotic system developed to assist in the preparation of i.v. antineoplastic drugs was as...

28/3,K/5 (Item 1 from file: 74)
DIALOG(R)File 74: Int.Pharm.Abs
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00331650 38-12200

REENGINEERING THE AMBULATORY CARE PHARMACY WITH AUTOMATION

Pendergrass, V. J.
Bergen Brunswick Corp., 4000 Metropolitan Dr., Orange, CA 92868, USA Internet: vjpendergrass@att.net
ASHP Midyear Clinical Meeting, V36, (Dec), pMCS-41, 2001
Abstract of Meeting Presentation
Language: English **Record Type:** Abstract

...and an ongoing long-term plan. Selection and implementation of the appropriate automated systems require an analysis of the five primary functions of the prescription **filling** process: **prescription** receipt, data entry, **filling**, checking and delivery to the patient. This presentation explores the steps needed to develop a comprehensive automation strategy, which will result in the proper selection....for the ambulatory care pharmacy. 3. Understand the importance of a comprehensive automation strategy for the ambulatory care pharmacy.

Self-assessment questions: 1. Adding an **automation device** to the ambulatory care pharmacy **prescription filling** process always improves the service level of the pharmacy. 2. Carefully planned additions of **automated devices** to the ambulatory care pharmacy **prescription filling** process can improve patient safety while allowing **pharmacists** to perform patient **care** activities. 3. Proper selection and implementation of automation in the ambulatory care pharmacy require an analysis of the five primary functions of the **prescription filling** process.

Answers: 1. F; 2. T; 3. T.

28/3,K/17 (Item 13 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

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00212845 30-06966

IMPACT OF A ROBOTIC MEDICATION DISPENSING, CHECKING, AND INVENTORY CONTROL SYSTEM ON A HOSPITAL PHARMACY DRUG DISTRIBUTION SYSTEM

Thielke, T. S.; Perini, V. J.; Gates, D. M.; Baker, L. E.

University of Wisconsin Hospital and Clinics, 600 Highland Avenue, Madison, WI 53792, USA

ASHP Annual Meeting, V50, (Jun), pMCS-33, 1993

Abstract of Meeting Presentation

Language: English **Record Type:** Abstract

The objective of this presentation is to present the results of an evaluation of the impact of a robotic **medication distribution** system on a hospital pharmacy.

There have been few advances in the concept of unit dose systems since their original development in the early 1960s. The use of robotic technology could allow for more efficient use of pharmacy personnel and free the **pharmacist** to provide pharmaceutical **care**. This case study describes the process of evaluating the effectiveness of robotic technology in a hospital pharmacy.

The three criteria chosen to evaluate the overall...the system were personnel costs, accuracy, and capital equipment and supply costs. The specific functions that were studied included: 1) cart checking time; 2) cart **filling** time; 3) **medication** packaging time; 4) delivery time; 5) computer input time; 6) restocking of returned **medication** time; 7) cart **filling** accuracy; 8) cart checking accuracy; 9) robotic hardware costs; 10) computer hardware costs; 11) computer software costs; 12) maintenance contract charges; 13) remodeling cost; and 14) computer and packaging supply costs.

Preliminary results demonstrate an overall reduction in personnel costs and an increase in the accuracy of **filling** and checking of **medications**. Initial estimates indicate a savings of greater than \$300,000 over the 8 year life of the system.

28/3,K/19 (Item 15 from file: 74)

DIALOG(R)File 74: Int.Pharm.Abs

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00206669 30-00788

JUSTIFICATION AND IMPLEMENTATION OF A ROBOTIC MEDICATION DISPENSING, CHECKING, AND INVENTORY CONTROL SYSTEM

Thielke, T. S.; Perini, V. J.; Gates, D. M.
University of Wisconsin Hospital and Clinics, 600 Highland Avenue, Madison, WI 53792, USA
ASHP Midyear Clinical Meeting, V27, (Dec), pMCS-79, 1992
Abstract of Meeting Presentation

Language: English **Record Type:** Abstract

JUSTIFICATION AND IMPLEMENTATION OF A ROBOTIC MEDICATION DISPENSING, CHECKING, AND INVENTORY CONTROL SYSTEM

A description of the steps involved in the justification and implementation of a robotic **medication distribution** system that automates the functions of **medication cart filling**, checking, and returns within a unit dose **drug distribution** system is presented.

There have been few advances in the concept of unit dose systems since their original development in the early 1960s. The use of robotic technology could allow for more efficient use of pharmacy personnel and free the **pharmacist** to provide pharmaceutical **care**. This case study describes the process of justifying, implementing, and evaluating the effectiveness of robotic technology in a hospital pharmacy.

Descriptors: Management Case Studies -- meeting presentations; ASHP meeting abstracts -- **automated** dispensing; Dispensing -- **unit-dose**, **robotic** computers; Equipment -- dispensing, **unit-dose**, **robots**; Computers - - programs, hospital pharmacy, **robotic**, **unit-dose dispensing**; Pharmacy, institutional, hospital -- computers, **robotic**, **unit-dose dispensing**

28/3,K/22 (Item 18 from file: 74)
DIAL.ORG(R)File 74: Int.Pharm.Abs
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00017927 10-0824

NEW APPROACH TO PHARMACEUTICAL SERVICES

Evans, S. J.
University Hospital, Saskatoon, Saskatchewan, Canada
Canadian Journal of Hospital Pharmacy (Canada), V25, (Mar-Apr), p57-59, 1972
CODEN: CJHPAV **ISSN:** 0008-4123 **Language:** English **Record Type:** Abstract

An approach for achieving greater involvement of the hospital **pharmacist** on the health **care** team is discussed. The approach taken has been a cooperative effort by the hospital systems study group, the nursing staff and the pharmacy which resulted in the development of a **computerized unit-dose drug distribution** system. While a pharmacist works in a satellite pharmacy, serving 125 beds, the **unit-dose** system is centralized and the satellite does not maintain a drug inventory.

The acceptance of the **pharmacist** in the patient **care** area was studied by questioning nurses and physicians. Both groups said they benefited from the closer contact with a pharmacist.

Descriptors: Pharmacists, hospital -- role, on health care team; **Drug distribution** systems -- **unit-dose**, **computerized**, effects, on pharmacy services; Pharmacy, institutional, hospital -- **drug distribution** systems, **unit-dose**, **computerized**, effects, on pharmacy services; Automation, data processing, computers -- **drug distribution** systems, **unit-dose**, effects, on pharmacy services; Health care -- team, role, of hospital pharmacist

B. NPL Files, Full-text

File 149: TGG Health&Wellness DB(SM) 1976-2009/Feb W2
(c) 2009 Gale/Cengage
File 444: New England Journal of Med. 1985-2009/Nov W5
(c) 2009 Mass. Med. Soc.
File 129: PHIND(Archival) 1980-2009/Feb W3
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File 130: PHIND(Daily & Current) 2009/Mar 20
(c) 2009 Informa UK Ltd
File 455: Drug News & Perspectives 1992-2005/Aug
(c) 2005 Prous Science

Set	Items	Description
S1	6217	(ROBOT? ? OR ROBOTIC??? OR ROBO OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELEC- TRONIC??? OR ELECTROMECHANICAL OR COMPUTERIZED OR DIGITAL OR - SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TE- LEPRESENCE OR TELEMED?) (5N) ((PHARMACIST? ? OR PHARMACEIST? ? - OR PHARMACOLOGIST? ? OR PHARMACOLOGIST? ? OR DRUGGIST? ? OR - CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOL- IST? ? OR PHARM OR PHARMACY() (TECH OR TECHNICIAN? ?) OR KIOS- K? ? OR TERMIN
S2	146	S1 (10N) (("NOT" OR UN)() (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR D- IRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNAC- COMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAG- ED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO")() (SUPERVIS- I?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIREC- TION))
S3	156125	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPA- RATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DIST- RIBUT??? OR REFILL???) (4N) (PHARMACEUTIC??? OR PHARMACEUTIC??? OR PHARMACO????? OR PHARMACO????? OR DRUG OR DRUGS OR PRESC- RIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDIC- AL)() (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)
S4	17366	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR (DIFFERENT OR OTHER-)() (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR D- ISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARAT??? N? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT??? OR CARE OR PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNS- EL???)
S5	239	S4 (3N) (PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHAR- MACY()TECH? ? OR PHYSICIAN? ?)
S6	8	S2 AND S3
S7	50	S1 (10N) S3
S8	0	S7 (20N) S5
S9	0	S7 AND S5
S10	4	S7 AND S4
S11	2	S10 NOT S6
S12	46	S7 NOT (S10 OR S11 OR S6)
S13	23	S12 NOT PY>2001
S14	22	RD (unique items)
S15	0	S2 AND S5
S16	7	S2 AND S4

S17	4	S16 NOT (S10 OR S11 OR S6 OR S12)
S18	4	RD (unique items)
S19	0	S1 (10N) S5
S20	6	S1 AND S5
S21	6	S20 NOT (S10 OR S11 OR S6 OR S12)
S22	6	RD (unique items)
S23	31	S1 (10N) S4
S24	30	S23 NOT (S10 OR S11 OR S6 OR S12 OR S22)
S25	30	RD (unique items)
S26	18	S25 NOT PY>2001

14/3,K/1 (Item 1 from file: 149)

DIALOG(R)File 149: TGG Health&Wellness DB(SM)

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02921402 Supplier Number: 78964528 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Automation of Pharmacy Systems: Experiences and Strategies of a Rural Healthcare System.

KIMBLE, CRAIG ALLAN; CHANDRA, ASHISH

Hospital Topics , 79 , 2 , 27

Spring ,

2001

Publication Format: Magazine/Journal

ISSN: 0018-5868

Language: English

Record Type: Fulltext **Target Audience:** Trade

Word Count: 3794 **Line Count:** 00322

...monitor for control of medications, and the assignment of responsibilities. The American Society of Health-System Pharmacists (ASHP) provides guidelines for the safe use of **automated medication storage and distribution devices** (see their Web site, <www.ashp.org>), and the JCAHO provides a listing of standards for these systems on its Web site, <www.jcaho.org...

...it decides which system to purchase or lease.

Selection Procedure for an Automated Drug Dispensing and Monitoring System

Before a healthcare system acquires an automated **drug dispensing** and monitoring system, the administrators need to examine how the **automated dispensing devices** (ADDs) will affect the medication management system (ECRI 1996). Holzer chose to consider the decentralized ADDs rather than a centralized dispensing device because of the...

...of implementation and to make a lasting improvement on the care of patients.

REFERENCES

Borel, J. M., and K. L. Rascati. 1995. Effect of an **automated nursing unit-based drug-dispensing device** on **medication errors**. American Journal of Health-System Pharmacy 52 (17): 1875-79.

Chi, J. 1999. Workload and errors: It's more complex than you may think. Drug Topics 143 (2): 29-31.

ECRI. 1996. **Automated** decentralized pharmacy dispensing systems. Health **Devices** 25:436-73.

Glover, D. G. 1997. **Automated medication**

dispensing devices. Journal of the American Pharmaceutical Association 37 (3): 353-59.

Guerrero, R. M., N. A. Nickman, and J. A. Jorgenson. 1996. Work activities before and...

14/3,K/5 (Item 5 from file: 149)

DIALOG(R)File 149: TGG Health&Wellness DB(SM)

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01899912 **Supplier Number:** 61522849 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Using information technology to reduce rates of medication errors in hospitals.(Education and Debate)(Statistical Data Included)

Bates, David W

British Medical Journal, 320, 7237, 788

March 18,

2000

Document Type: Statistical Data Included **Publication Format:** Magazine/Journal; Refereed

ISSN: 0959-8146

Language: English

Record Type: Fulltext; Abstract **Target Audience:** Professional

Word Count: 2909 **Line Count:** 00239

...sufficiently studied. Among these are computerised physician order entry, computerised physician decision support (which is often, though not necessarily, linked with order entry), robots for **filling prescriptions**, bar coding, **automated dispensing devices**, and computerisation of the medication administration record (fig 1).

(Figure 1 ILLUSTRATION OMITTED)

It is essential to state at the outset, however, that information technologies...hand is actually the intended one and can also be used to record who is giving and receiving it, as well as various time intervals.

Automated dispensing devices

Automated dispensing devices can be used to hold **drugs** at a location and **dispense** them only to a specific patient.(14) Such devices, especially if linked with bar coding and interfaced with hospital information systems, can decrease medication error ...

...Exceptions are computerised physician order entry and computerised physician decision support, which have been found to improve drug safety

Other innovations, including using robots to **fill prescriptions**, bar coding, **automated dispensing devices**, and computerisation of the medication administration record, though less studied, should all eventually reduce error rates

The medication system of the future will include these...Malloy MJ, Heller WM, Dispensing errors and counseling in community practice. Am Pharm 1995;35:25-33.

(16) Borel JM, Rascati KL. Effect of an **automated**, nursing unit-based **drug-dispensing device** on medication errors. Am J Health Syst Pharm 1995;52:1875-9.

(17) Barker KN, Pearson RE, Hepler CD, Smith WE, Pappas CA. Effect of an automated...

26/3,K/13 (Item 13 from file: 149)
DIALOG(R)File 149: TGG
Health&Wellness DB(SM)
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01085943 **Supplier Number:**
03628720 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**The robots are coming; lab automation is moving a step further
as robots develop the sophistication to take over traditional benchtop tasks.**

Pippenger, Charles E.; Mergargle, Robert G.;
Galen, Robert S.
Medical Laboratory Observer
, v17 , p30(8)
Feb ,
1985

Publication Format: Magazine/Journal
ISSN: 0580-7247

Language:
English

Record Type: Fulltext **Target Audience:**
Academic; Professional

Word Count: 2753

Line Count: 00264

...equipment is permanently fastened to the work surface surrounding the arm unit--standard accessories including test tube racks and reagent bottles, along with other familiar **devices** modified for **remote control operation (electronic** balances, vortex mixing stations, automatic liquid dispensers, heating baths, centrifuges, and sample shakers). Finally, the work station incorporates some devices unique to robotics, such as...

File 15:ABI/Inform(R) 1971-2009/Mar 21
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File 275:Gale Group Computer DB(TM) 1983-2009/Feb 25
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 File 634:San Jose Mercury Jun 1985-2009/Mar 20
 (c) 2009 San Jose Mercury News
 File 148:Gale Group Trade & Industry DB 1976-2009/Mar 06
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Set	Items	Description
S1	762068	(ROBOT? ? OR ROBOTIC???? OR ROBO OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELEC- TRONIC??? OR ELECTROMECHANICAL OR COMPUTERIZED OR DIGITAL OR - SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TE- LEPRESENCE OR TELEMED?) (5N) ((PHARMACIST? ? OR PHARMACEIST? ? - OR PHARMACOLOGIST? ? OR PHARMACOLOGIST? ? OR DRUGGIST? ? OR - CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOL- IST? ? OR PHARM OR PHARMACY() (TECH OR TECHNICIAN? ?) OR KIOS- K? ? OR TERMIN
S2	22286	S1 (10N) ((("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR D- IRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACC- COMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAG- ED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVI- SI?? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIREC- TION OR PHARMACIST? ? OR PHARMACEIST? ? OR CHEMIST? ?))
S3	773180	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPA- RATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DIST- RIBUT??? OR REFILL???) (4N) (PHARMACEUTIC??? OR PHARMACEUTIC??? OR PHARMACO????? OR PHARMACO????? OR DRUG OR DRUGS OR PRESC- RIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDIC- AL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)
S4	653721	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR (DIFFERENT OR OTHER-) () (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR D- ISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATIO- N? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT??? OR CARE OR PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNSEL- EL???)
S5	1742	S4 (3N) (PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHAR- MACY()TECH? ? OR PHYSICIAN? ?)
S6	4	S2 (10N) S3
S7	187	S2 AND S3
S8	2	S7 AND S5
S9	2	S8 NOT S6
S10	19	S7 AND S4
S11	17	S10 NOT (S6 OR S9)
S12	14	RD (unique items)
S13	769	S1 (10N) S3
S14	5	S13 (10N) S5
S15	5	S14 NOT (S6 OR S9 OR S10)
S16	4	RD (unique items)

S17 6 S13 (30N) S5
 S18 1 S17 NOT S15
 S19 11 S13 AND S5
 S20 5 S19 NOT S17
 S21 14 S13 (20N) S4
 S22 9 S21 NOT (S6 OR S9 OR S10 OR S15 OR S18 OR S19)
 S23 7 RD (unique items)
 S24 432 S1 (2N) S3
 S25 35 S24 AND (S4 OR S5)
 S26 18 S25 NOT (S6 OR S9 OR S10 OR S15 OR S18 OR S19 OR S22)
 S27 9 S26 NOT PY>2001
 S28 6 RD (unique items)

23/3,K/3 (Item 3 from file: 15)
 DIALOG(R)File 15: ABI/Inform(R)
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02262422
 10918268

Remote control
 Ukens, Carol

Drug Topics
 v141n2 pp: 69

Jan 20, 1997
ISSN: 0012-6616 **Journal**
Code: RXT

Abstract:

Two new outpatient **automated** units let retail **pharmacists**
dispense drugs in clinics, physicians' offices, and nursing
 homes without ever leaving the pharmacy. The technological magic of
remote-control dispensing via computer modem is the
 heart of the new RCD-2 and RCD-2.5 from ADDS Inc. The automated
 point-of-use dispensers are...

23/3,K/6 (Item 3 from file: 16)
 DIALOG(R)File 16: Gale Group PROMT(R)
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05545959 **Supplier**
Number: 48406520 **(USE FORMAT 7 FOR FULLTEXT)**

Pharmacy regulatory affairs champions for change

Frederick, James
 Drug

Store News , p 74
April 6 , 1998

Language: English **Record Type:** Fulltext

Document Type: Magazine/Journal ; Trade

Word Count:

836

...changes in chain pharmacy practice that can improve efficiencies and free pharmacists up to spend more time managing drug therapy and counseling patients. That includes **automated dispensing**, **pharmacist/technician ratios**, **electronic prescription** transmission and **off-site dispensing**, or hub-and-spoke dispensing.

Wagner and Baroni are also working with chains across the country to build up their representation on state pharmacy boards...

28/3,K/1 (Item 1 from file: 15)
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00987643 96-37036

The changing retail environment: Its influence on professionalism in chain and independently owned pharmacies

Szeinbach, Sheryl L; Barnes, James H; Summers, Kent H; Banahan, Benjamin F III
Journal of Applied Business Research v11n1 pp: 5-14
Winter 1994/1995

ISSN: 0892-7626 **Journal Code:** JRH

Word Count: 4290

Text:

...In addition, for independents to provide more professional services (eg., patient counseling, drug utilization evaluation), they must be willing to relinquish the dispensing function to **pharmacy technicians** and **automated dispensing** systems. In the past, **prescription** volume has not been crucial to the economic success of independent pharmacies. In this environment, pharmacy technicians were not necessarily needed and pharmacists may have...

...their dispensing function. However, in the current environment, customer interaction is usually higher with independent pharmacists, and perhaps independent pharmacists view technicians as taking time **away** from this **interaction**.

DEVELOPMENT OF A NEW RETAIL STRATEGY

According to current health care trends, it is anticipated that pharmacists must seek professional growth through increased customer contact...

28/3,K/2 (Item 1 from file: 9)
DIALOG(R)File 9: Business &
Industry(R)
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01888299

Supplier Number: 25358071 (USE FORMAT 7 OR 9
FOR FULLTEXT)

**Buffalo, N.Y.-Area Rite Aid Stores Install
Automated Prescription System
(Rite Aid installs automated
prescription dispensing machines to free pharmacists to
perform other tasks)**

Buffalo News

, p N/A

July 06, 1999

Document Type:

Regional Newspaper (United States)

Language: English

Record Type: Fulltext

Word Count: 1197

(USE FORMAT 7 OR 9 FOR FULLTEXT)

(Rite Aid
installs **automated prescription dispensing** machines to free
pharmacists to perform other tasks)

TEXT:

...time communicating with the doctor, is a good and beneficial thing."

Morse said while dispensing of drugs will remain an integral facet of any
pharmacy **practice**, time **away** from the counting and labeling
of medication will allow druggists to play a larger role in patient
health.

"If a patient has an opportunity to...

30/3,K/2 (Item 1 from file: 9)

DIALOG(R)File 9: Business & Industry(R)

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01336353 Supplier Number: 23986270

Telemedicine: The New Frontier

(Telemedicine, in which a physician, nurse or pharmacist communicates to a patient via phone and video
links, could be the wave of the future)

Drug Topics , v 141 , n 15 , p 60+

August 04, 1997

Document Type: Journal; Cover Story ISSN: 0012-6616 (United States)

ABSTRACT:

...Kansas study indicated that 50% of home health care visits could have been accomplished by telemedicine. ADDS Inc (North Billerica, MA) offers units that allow **pharmacists** to **dispense** medication at **remote** sites. The **automated dispensing devices** contain prepackaged bottles of medications. InforMedix Inc (Rockville, MD) offers a Personal Medical Assistant that reminds patients to take their pills, offering a picture of...

File 20:Dialog Global Reporter 1997-2009/Mar 19
(c) 2009 Dialog

Set	Items	Description
S1	547	(ROBOT? ? OR ROBOTIC???? OR ROBO OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELECTRONIC??? OR COMPUTERIZED OR DIGITAL OR SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED-?) (3N) (PHARMACIST? ? OR PHARMACEIST? ? OR PHARMACOLOGIST? ? OR PHARMACOLOGIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR DRUG()MANAGEMENT OR APOTHECAR??? OR PHARMACOPOLIST? ? OR PHARM OR PHARMACY() (TECH OR TECHNICIAN? ?) OR ROBOPHARMAC?)
S2	376276	(ROBOT? ? OR ROBOTIC???? OR AUTOMAT??? OR ANDROID? ? OR CYBORG? ? OR MECHANICAL OR MACHINE OR MECHANIZED OR ELECTRONIC??? OR COMPUTERIZED OR DIGITAL OR SELF()SERVICE OR STAND()ALONE OR VIRTUAL OR TELEPRESENT OR TELEPRESENCE OR TELEMED?) (3N) (KIOSK? ? OR TERMINAL? ? OR INTERFACE? ? OR DEVICE? ? OR APPARATUS OR STATION? ? OR DRIVE() (IN OR THRU OR THROUGH) OR AUTOMAT? ? OR MECHANISM? ? OR UNIT OR UNITS)
S3	16	S1 (3N) (("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISOR? ? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECT-ON))
S4	6058	S2 (3N) (("NOT" OR UN) () (ATTENDED OR SUPERVISED OR ASSISTED OR ACCOMPANIED OR WATCHED OR AIDED OR HELPED OR MANAGED OR DIRECTED) OR UNATTENDED OR UNSUPERVISED OR UNASSISTED OR UNACCOMPANIED OR UNWATCHED OR ISOLATED OR ALONE OR SOLITARY OR SOLO OR SOLELY OR INDEPENDENT?? OR UNAIDED OR UNHELPED OR UNMANAGED OR (WITHOUT OR LACK OR LACKS OR LACKING OR "NO") () (SUPERVISOR? ? OR ASSISTANCE OR AID OR MANAGEMENT OR OVERSIGHT OR DIRECT-ON))
S5	808797	(DISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPARING OR PREPARE? ? OR ADMINISTER? ? OR DISTRIBUT??? OR REFILL???) (3N) (PHARMACEUTIC??? OR PHARMACEUTIC??? OR PHARMACO????? OR PHARMACO????? OR DRUG OR DRUGS OR PRESCRIPTION? ? OR (CONTROLLED OR PRESCRIBED OR REGULATED OR MEDICAL) () (SUBSTANCE? ? OR ITEM? ?) OR MEDICATION? ? OR MEDICINE? ? OR SYRINGE? ? OR NARCOTIC? ? OR PILL OR PILLS)
S6	354975	(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR OFFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTLYING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR (DIFFERENT OR OTHER-)) (LOCATION? ? OR PLACE OR PLACES)) (3N) (CONTROL? ? OR OPERAT??? OR MANIPULAT??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR D-

ISPENS??? OR FILL OR FILLS OR FILLING OR FILLED OR PREPARATIO-
 N? ? OR PREPARING OR PREPARE? ? OR INTERACT????? OR DIRECT????
 OR CARE OR PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNS-
 EL????)

S7 891042 (PHARMACIST? ? OR DRUGGIST? ? OR CHEMIST? ? OR PHARMACY())T-
 ECH? ? OR TECHNICIAN? ? OR EMPLOYEE? ? OR ASSISTANT? ? OR CLE-
 RK? ? OR CASHIER? ? OR HUMAN? ? OR DOCTOR? ? OR PHYSICIAN? ? -
 PERSON? ? OR PEOPLE? ?)(3N)(CONTROL? OR OPERAT??? OR MANIPULA-
 T??? OR COMMAND??? OR MANAG????? ACTIVAT??? OR DISPENS??? OR
 FILL OR FILLS OR FILLING OR FILLED OR PREPARATION? ? OR PREPA-
 RING OR PREPARE? ? OR INTERACT????? OR DIRECT????? OR CARE OR -
 PRACTICE? ? OR PRACTICING OR COMPOUNDING OR COUNSEL???)

S8 6327 S7(3N)(REMOTE OR REMOTELY OR DISTANT?? OR DISTANCE? ? OR O-
 FFSITE OR OFF()SITE OR AWAY OR REMOVED OR AFAR OR FAR OR OUTL-
 YING OR FIELD OR EX()SITU OR ROAMING OR ROVING OR ISOLATED OR
 (DIFFERENT OR OTHER)() (LOCATION? ? OR PLACES))

S9 0 S4 (5N) S5

S10 1 S4 (30N) S5

S11 1 S10 NOT S3

S12 4 S4 (50N) S5

S13 3 S12 NOT S11

S14 15 S4 (10N) S6

S15 15 S14 NOT S12

S16 12 RD (unique items)

S17 30 S4 (10N) (S7 OR S8)

S18 29 S17 NOT (S12 OR S15)

S19 28 RD (unique items)

S20 25 S19 NOT PY>2001

S21 10 S1 (3N) S5

S22 10 S21 NOT (S12 OR S15 OR S17)

S23 48 S1 (30N) S5

S24 3 S23 AND (S6 OR S8)

S25 21 S23 AND S7

S26 20 S25 NOT S24

S27 20 RD (unique items)

S28 259 S2 (5N) S5

S29 0 S28 (5N) S6

S30 10 S28 AND S6

S31 9 S30 NOT (S24 OR S25)

S32 9 RD (unique items)

S33 3 S28 (10N) (S7 OR S8)

S34 5 S28 (20N) (S7 OR S8)

S35 2 S34 NOT S33

S36 25 S23 NOT (S24 OR S25 OR S30 OR S34 OR S35)

S37 22 RD (unique items)

22/3,K/10

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10026133 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**DrugEmporium.com Launches State-of-the-Art Prescription Fulfillment Center; New Facility Provides Faster, More
 Cost-Effective Service For Customers**

BUSINESS WIRE

March 13, 2000

Journal Code: WBWE **Language:** English **Record Type:** FULLTEXT

Word Count: 401

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...SI/BAKER automated cassette system and barcode verification technology, which provides accurate, fast, and efficient **filling** of **prescriptions**. This **automation** enables DrugEmporium.com **pharmacists** to concentrate on reviewing prescriptions, consulting with customers, and performing clinical research. In bringing the...

27/3,K/20

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08390655 (USE FORMAT 7 OR 9
FOR FULLTEXT)

Where robots fill scripts and X-rays are outmoded

jon kalish

CRAIN'S NEW YORK BUSINESS , p 29

November 25, 1999

Journal Code: WCNY

Language: English **Record Type:** FULLTEXT

Word Count:

560

"It's a good **machine**," **pharmacist** Scott Dutcher says, nodding in the direction of the Script Pro, a \$149,000 robot that can **fill** 90 **prescriptions** an hour.

The device, which is about the size of two large refrigerators, is just...

...pours them into a plastic vial. (Script Pro is barred from handling liquid medications or **controlled** drugs.)

A **human pharmacist** then puts a label and lid on the vial, and confirms that the pills inside...

32/3,K/8

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19984674 (USE FORMAT 7 OR 9 FOR FULLTEXT)

E-Z-EM Introduces New CT Injector At RSNA 2001

BUSINESS WIRE

November 26, 2001

Journal Code: WBWE **Language:** English **Record Type:** FULLTEXT

Word Count: 933

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...the injector head with a handy pendant switch, or by touching any area on the **remote control** touch screen. Response time is further enhanced by voice prompts that immediately alert the operator...

...either direction to aid in positioning. Graphic displays facilitate syringe monitoring, and a unique anatomical **interface** simplifies protocol selection. **Automated** and manual **syringe filling**, "on-the-fly" flow rate manipulation, and system arming can

all be controlled at the...

32/3,K/9

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13011500 (USE FORMAT 7 OR 9 FOR FULLTEXT)

'Peratech' Touch-Sensitive Conductor Named Winner of 2000 Saatchi & Saatchi Innovation in Communication Award

PR NEWswire

September 26, 2000

Journal Code: WPRW **Language:** English **Record Type:** FULLTEXT
Word Count: 993

(USE FORMAT 7 OR 9 FOR FULLTEXT)

-

...a jacket to activate a Palm Pilot, a tabletop to play music and a television **remote control** to be sewn into the arm of a sofa, today was named winner of the...

...of language or reading ability, which will make the important task of accurately identifying and **dispensing medication** virtually foolproof. * Smart Stretcher - a **virtual** traveling intensive care **unit**, this life-saving equipment connects trauma patients to a continuous, global intensive care and communications...

33/3,K/2

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15991465 (USE FORMAT 7 OR 9 FOR FULLTEXT)

TechRx Acquires Renlar Unit From Cardinal Distribution; Pharmacy Systems Standardize and Move to Web-Based, ASP Format

PR NEWswire

April 04, 2001

Journal Code: WPRW **Language:** English **Record Type:** FULLTEXT
Word Count: 484

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...chains, independent pharmacies, wholesalers, mail order services, and Central Processing and Central Fill facilities to **automate** the administrative tasks associated with **prescription filling**, and to free **pharmacists'** time for enhanced patient care. TechRx's new T-Rex One offers an ASP-based...

37/3,K/17

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18530970 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Novadigm's Radia Enhances Capacity of Antelope Valley Hospital to Deploy And Manage Innovative Medical Services

PR NEWswire

August

28, 2001

Journal Code: WPRW **Language:** English

Record Type: FULLTEXT

Word Count: 1299

...technology commitment attracts the best robots in their field, including FRED, the hospital's electro-mechanical pharmacist.

Technically a McKesson HBOC Robot-Rx **Drug Distribution** System, FRED -- the "Friendly **Robotic Engineer Druggist**" -- is a specialized device whose software is automatically managed by Radia. FRED, still a rare...

37/3,K/18

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Houston Hospitals Cut Errors Using High-Tech Techniques, Low-Cost Changes

Mary Sit-DuVall

KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS

NEWS (HOUSTON CHRONICLE - TEXAS)

August 08, 2000

Journal Code: KHCN **Language:** English

Record Type: FULLTEXT

Word Count: 1213

...doses a day. It reduces the misidentification of medications and won't allow itself to **dispense** any expired **drugs**.

"We love it," says Michael Mabrey, director of pharmacy at Bayshore, adding that the **robot** also frees his **pharmacists** to spend time on the floor with patients and doctors.

Some solutions to improving **accuracy**...

37/3,K/19

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06557681

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TechRx to

Provide Rx Automation Software for CVS ProCare

PR NEWSWIRE

August

05, 1999

Journal Code: WPRW **Language:** English

Record Type: FULLTEXT

Word Count: 501

...involved in those parts of the process that require their expertise. The system also enables **pharmacists** to compare **digital** images of pills to bottle contents, ensuring that the correct **medication** was

dispensed.

TechRx Incorporated is a leading provider of state-of-the-art software systems that automate...

37/3,K/20

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06290571 (USE FORMAT 7 OR 9

FOR FULLTEXT)

**Utah Hospital's McKesson HBOC Robot Does Work
of Three Human Pharmacists**

Vince Horiuchi

KRTBN KNIGHT-RIDDER TRIBUNE BUSINESS

NEWS (SALT LAKE TRIBUNE - UTAH)

July 17, 1999

Journal Code: KSLT **Language:** English

Record Type: FULLTEXT

Word Count: 810

...of it."

He argues that the machine only replaces the manual labor of counting and dispensing medications and frees up pharmacists to do work they were educated for: counseling patients about drugs and making sure the medications are working well. Hulse said the pharmacists and pharmacy technicians replaced by the robot are now allowed to work more closely with patients.

The Utah Pharmaceutical Association agrees that...

IV. Additional Resources Searched

[EBSCOhost: Internet and Personal Computing Abstracts]

Hospitals invest in technology to lessen human error -- Robots and bar-code scanners are some tools being used to ensure prescription accuracy.

Authors:

Johnson, Linda A

Source:

Philadelphia Inquirer; September 20, 2001, pF3-F3, 1p

Document Type:

Article

Abstract:

Reports on the various ways hospitals are using technology to reduce human error. Says that at Cooper Hospital in Camden, NJ, prescriptions are typed into a computer. Reports that at the nation's veteran's hospitals, bar-code scanners identify patients' medicine and ensure that the prescribed drugs cause no harm. Relates that at Jersey Shore Medical Center in Neptune, NJ, a pharmacy robot reads electronic medical charts, pulls bar-coded medicine from stock shelves, makes labels, and sorts them into labeled bins, eliminating human error. Indicates that since a report was issued two years ago about errors killing thousands of patients each year, hospitals are trying everything from better training and new medication-

handling procedures to installing sophisticated multimillion-dollar technology meant to catch mistakes that harried doctors and nurses sometimes miss. Explains how robotic systems in pharmacies work. Includes one photo.

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